CONSTRUCTION NEWS

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RAILWAYS.

*(*Denotes that this work is advertised in Engineering News.)*

Pennsylvania.—Lehigh Valley R. R.—Press advices state that this company is making surveys for a new line to tidewater through Lehigh, Schuylkill, Berks, Lancaster and York Counties to York, where a connection will be made with the Maryland & Pennsylvania R. R.

Pennsylvania.—Baltimore & Ohio R. R.—A contract for grading the Monongahela division from Martin, Pa., to the West Virginia state line has been awarded to McMINIMEN & SYMMES. See item under West Virginia, Sept. 14.

Maryland.—Baltimore & Virginia Ry. Co.—The Public Service Commission has granted permission to issue $1,000,000 in stocks and $500,000 in bonds for the purpose of constructing a railway from Millersville, in Anne Arundel County to Drum Point Harbor, on the Patuxent River, in Calvert County.

West Virginia.—A charter has been issued to the Kanawha-Ohio Valley Trade Producing Co. for the purpose of building an electric or steam standard-gage railway from Parkersburg and Charleston, with seven different arteries connecting villages with the main line. The towns of Weston, Elenville, Waverly, Arnoldsburg, Millwood and Ripley will be connected.

West Virginia.—Western Maryland R. R.—This company has purchased 30 pieces of property at Ridgley, W. Va., where a round-house will be built. It will also construct a bridge across the Potomac, connecting Ridgley with Cumberland. It is rumored that the company has purchased a portion of the Chesapeake & Ohio canal for the purpose of extending the line to Connellsville, Pa.

Georgia.—Etowah Valley Ry. Co.—This company has been incorporated at Atlanta to build a railway from a point on the Louisville & Nashville R. R. at or near Ball Ground, in Cherokee County, passing along Etowah River, through Cherokee, Forsyth, Dawson, Lumpkin, White and Towns Counties, about 75 miles. G. R. Glenn, H. D. Gurley, J. H. Moore and others are the incorporators.

Florida.—Atlantic, Okeechobee & Gulf Ry.—Surveys are now being made for the proposed extension from Tampa to Fort Lauderdale by W. K. Palmer Co., Kansas City, Mo., who have established offices in the Franklin Square Bldg., Tampa.

Mississippi. — Meridian & Memphis Ry. Co.—This company has been incorporated to build a line from Meridian, Miss., to Memphis, Tenn., through Lauderdale, Newton, Neshoba, Leake, Attala, Carroll, Montgomery and Grenada Counties, the northerly terminal to be at or near Winona, in Montgomery County. The incorporators are S. A. Nevile, Chas. S. Sconeld and W. C. Stowell, all of Meridian.

Illinois.—Southern Ry.—A franchise has been granted by the City Council to double-track its belt line now in operation in the southern part of East St. Louis.

Texas.—The Pecos Valley Southern Ry.—The erection of shops and terminals at Pecos will soon be started and a line from Balmorhea to Alpine, about 75 miles, will be built.

Texas.—St. Louis & San Francisco System (Brownwood North & South R. R.)—The line now under construction to May will be extended to Rising Star.

Texas.—San Antonio, Rockport & Mexico R. R.—It is announced that this company has financed the construction of its proposed line between San Antonio and Brownsville, with a branch line to Rockport, a total of 350 miles, in London. Steps are being taken to raise bonuses to the amount of $8,000 per mile to aid in the construction of the line. Noted Sept. 14.

Oklahoma. — Missouri, Oklahoma & Gulf Ry.—Engineers are surveying a line to Pittsburg, Kans. A contract was recently let for an extension from Henryetta to Oklahoma City. J. J. Harrison, Muskegon, is Ch. Engr.

Oklahoma.—Oklahoma Northwestern R. R.—Press reports state that this newly incorporated company will build a line 150 miles long to start at Oklahoma City northwest to Woodward. The incorporators include: E. A. Wagener, C. E. Close, J. J. Sullivan, W. H. Wood and E. F. Sparrow, all of Oklahoma City, representing the Classen interests, who own much of the street railway system of Oklahoma City.

✚California.—Oakland & Antioch Ry. Co.—A contract has been awarded to the SHATTUCK & EDINGER CO., 109 East Sixth St., Los Angeles, for the construction of a railway.

California.—Fresno Coaling & Monterey R. R.—Surveys have been completed for this road from Fresno to the coast, about 190 miles. John S. Bates, Fresno, Cal., is Ch. Engr.

Nova Scotia.—Intercolonial Ry.—Bids will be received until Oct. 12 by L. K. Jones, Secy Dept. Rys. and Canals, Ottawa, for the construction of a branch line from a point near Alba to the town of Baddeck, Nova Scotia, a distance of 22.7 miles, and for the construction of Moncton (N. B.) yard and cut-off. Plans profiles, specifications and form of contract can be seen at office of Chief Engineer, Dept. Ottawa, or office of Chief Engineer Ry. Moncton, N. B.

Panama.—Panama David R. R.—The following bids were received for the construction of this road: R. W. Hebard, an engineer, formerly in the employ of the Isthmian Canal Commission submitted a bid to construct the road for $9,730,000 gold. W. K. Knowlton offered to build the road for the Government for 4¾% of the actual cost as his profit, estimating the actual cost at not more than $7,500,000; he is said to represent a syndicate of Americans and Panamanians, prominent among whom is J. G. Duque, of Panama. E. L. Myers, offers to build the line for 10% of the total cost, estimating this at not more than $10,000,000. The bidder also offers to turn over to the Government the profits accruing from operation while the road is still under construction. For the latter part of the work it is estimated these profits will reach $500,000 per year. Mr. Myers also claims to have sufficient financial backing to build the road without the necessity of the Government issuing bonds.

ELECTRIC RAILWAYS.

Niagara Falls, N. Y.—The Frontier Electric Ry. Co. has secured a right-of-way from Main St. across country, through the Tonawandas, down the Niagara River and through Niagara Falls. James S. Simmons, Niagara Falls, is Gen. Mgr.

Johnstown, Pa.—The Johnstown Traction Co. will soon begin the construction of its extension from Johnstown to Southmont by way of the Eighth Ward. G. N. Smith, Johnstown, is Ch. Engr.

Pittsburgh, Pa.—The Pittsburgh Ry. Co., a subsidiary of the Philadelphia Co., plans to expend $3,000,000 on improvements and extensions of the trolley system in Pittsburgh.

Washington, Del. — The American Traction & Power Co., recently incorporated, contemplates building a railway and power plant in the Southern States. H. C. Brubaker, Indianapolis, Ind., is Pres.

Anderson, S. C.—Plans to construct an electric railway from Abbeville to Easley, 60 miles, are being prepared. It will cost approximately $800,000.

✚Birmingham, Ala.—A contract has been awarded to HOWARD N. BOWDER, Birmingham, Ala., by the Birmingham & Edgewood Electric Ry. Co. to extend its Edgewood line from its present terminus to the Edgewood Country Club at Birmingham. R. L. Totten, Birmingham, is Ch. Engr.

Mobile, Ala.—About $500,000 will be expended by the Mobile West Shore Traction Co. within the next year in the construction of an electric line connecting Mobile with Alabama Port, thence to Bayou La Batre, Coden and possibly to Pascagoula, Miss. The road will be about 50 miles in length. The work will be commenced not later than Dec. 1.

Algiers (Station A, post-office, New Orleans), **La.**—A railway on Morgan and Patterson Sts. is being planned by J. E. Renecky and associates.

Johnson City, Tenn.—At an election held in Jonesboro, $25,000 in bonds were voted to aid in constructing a railway from Jonesboro to Johnson City.

Bellefontaine, Ohio.—Plans are being prepared by the Belle Center Commercial Club for the construction of a 60-mile railway to connect Findlay, Russels Point, Lewistown, Reservoir, Kenton, Belle Center, Huntsville and the reservoir resorts of Lakeridge and Orchard Island.

Canton, Ohio.—A franchise has been granted by the County Commissioners to the Cleveland, Alliance & Mahoning Valley R. R. Co. to construct an electric railway in Stark County.

Cleveland, Ohio.—A franchise has been applied for by the Cleveland Ry. Co. to build a cross-town line from the east side of the city at Broadway through East 79th St., to Gordon Park. J. J. Stanley, Cleveland, is Gen. Mgr.

Defiance, Ohio.—The Ohio Electric Ry. Co. contemplates extending its Defiance & Lima branch into Defiance.

Monticello, Ind.—The Indiana & Northwestern Traction Co. has resumed work of grading and clearing the right-of-way through Newton County for its proposed electric railway, which is to connect Cedar Lake, Reynolds, Hammond, Crown Point, Rensselaer, Lafayette and Chicago. Subsidies amounting to more than $50,000 have been voted.

Troy, Ind.—Plans are being made by the Vincennes & Southeastern Interurban Ry. Co. to obtain a right-of-way for a proposed extension of the line from St. Meinrad in Spencer County, to Troy, and from thence through Tell City to Cannelton.

Grand Rapids, Mich.—A railway is being promoted by Chris De Jonge, of Zeeland, and others to extend from Grand Rapids to Grand Haven by way of Georgetown, Blendon and Robinson.

✚Milwaukee, Wis.—The Milwaukee-Western Electric Ry. Co. has awarded a contract for the first division of grading for the proposed new interurban line from Milwaukee to Beaver Dam, to P. J. FINNERTY CO., Oconomowoc, Wis. C. A. Chapman, 714-715 Majestic Bldg., Milwaukee, is Ch. Engr.

Walker, Iowa.—The Chicago, Anamosa & Northern Ry. Co. is planning to extend its line toward Waterloo, from Coggan to Quasqueton. Henry Kiene, of Dubuque, is Pres.

Topeka, Kan.—The Topeka Ry. has been granted the right to build a spur at Seventh and Jackson Sts., to the property of the Edison Co.

Pierre, S. Dak.—The Twentieth Century Transportation Co. was recently incorporated to build an electric railway from Chicago, Ill., to Rapid City, S. Dak., by way of Minneapolis and St. Paul, Minn., and Watertown and Pierre, S. Dak. The incorporators are Robert Bailie, C. B. Keene, Lancaster, Wis.; Ernest Norwood, Winona, Minn., and others.

Ft. Ransom, N. Dak.—A plan to build a railway between Enderlin and Ft. Ransom is under consideration. E. S. Lovelace, G. Jacobson and O. A. Culbertson, Fort Ransom, are interested.

Kansas City, Mo.—A franchise has been received by the Metropolitan Street Ry. Co. for the construction of the West 12th St. trafficway. John M. Egan, this city, is Gen. Mgr.

Little Rock, Ark.—The Stuttgart & Southern Ry. Co. has recently been incorporated to build a railway from Stuttgart through Arkansas County to a point on Bayou Meto, about 25 miles. J. I. Porter, John L. Ingram, Phillip Reinsch and others are the incorporators.

Steps have been taken by the Mena & Hot Springs Ry. Co. for the proposed extension to Little Rock, 77 miles. W. P. Parks, Mena, is Vice Pres.

Canon City, Colo.—A 25-year franchise has been granted to F. B. Street and F. S. Kelsey, of New York, for use of the streets for an electric car line from the railroad station to the top of the Royal Gorge. The cost is estimated at $400,000.

Carson City, Nev.—D. W. Williams, of Carson City, and associates, are considering plans to build a railway between Carson City, Glenbrook, Lake Tahoe and Reno.

Port Angeles, Wash.—The Olympic Electric Ry. Co. has been incorporated and according to press reports proposes to build two lines, one to be equipped with steam, which will terminate at Portland, and one with electricity to pass from Port Angeles to Oak Bay near Port Ludlow.

Vancouver, Wash.—A franchise has been granted the Washington-Oregon Corporation to build and operate additional tracks in the city.

Wenatchee, Wash.—A franchise has been received by the Wenatchee Traction Co. for the construction of a street railway system to extend along the Columbia River Valley from Cashmere to Beverly. L. W. Pratt is Pres.

Portland, Ore.—A charter has been applied for by the Hood River Terminal Co. to build a gasoline, electric, or steam railway from a point on the line owned by the Oregon-Washington Ry. & Navigation Co. in Hood River to the steamboat land one-half mile east of Hood River. W. A. Delashmutt, A. B. Ireland and W. Chapman are the incorporators.

The Oregon Electric Ry. Co. has secured right-of-way through the Schindler ranch, south of Salem. L. B. Wickersham, Portland, Ore., is Ch. Engr.

Los Angeles, Cal.—The Pacific Electric Ry. Co. has completed plans to increase its present system of 875 miles of track by 1,000 miles. This will include a line from Los Angeles south along the coast to San Diego; a line from Los Angeles, east along the foothills to San Bernardino and Redlands; two lines from Los Angeles east to Riverside, San Bernardino and Redlands; a line from Los Angeles to Ventura and Santa Barbara along the coast; a line north from Los Angeles through the San Fernando Valley to Ventura and Santa Barbara; a cross country line from some point on the present Covina line to Long Beach; and extension of the present La Habra line to Santa Ana, and a line from Redondo across the San Pedro hills to San Pedro. Articles of incorporation, capital stock $100,000,000, were filed Sept. 1 at Sacramento by the Pacific Electric Ry. Co., and the various Southern Pacific owned electric lines of Southern California, heretofore existing as separate corporate concerns, and were brought together under the name of the Pacific Electric. This includes the following lines: Pacific Electric, Los Angeles and Interurban, Los Angeles & Redondo, Riverside and Arlington, San Bernardino Valley Traction, Redlands Central, San Bernardino Interurban, and the Los Angeles Pacific.

Merced, Cal.—Surveys have been started at Merced by the Tidewater & Southern R. R. Co., for its proposed extension to Fresno.

San Diego, Cal.—A franchise has been granted the San Diego Electric Ry. Co. to construct street railway on certain streets of the city. A. H. Wright is City Clk.

San Francisco, Cal.—Plans are being considered by the Glendale & Eagle Rock Ry. Co. to extend its line north from Glendale and make other improvements. E. D. Goode, Glendale, is Gen. Mgr.

The United Properties Co. has completed surveys for its proposed railway between Oakland and Sacramento.

LIGHT AND POWER PLANTS.

(✚Denotes a contract awarded.)

✚Enosburg Falls, Vt.—A contract has been awarded to the TRUITCHEL LUMBER CO., for the construction of a concrete dam, at $15,000. F. O. Sinclair, Burlington, Vt., is Engr.

✚Hardwick, Vt.—Contracts for improvements to the municipal electric light plant have been awarded as follows: The WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., electrical machinery; the S. MORGAN SMITH CO., water wheels and the concrete dam to the WOODBURY GRANITE CO. The estimated cost is $50,000. Frank O. Sinclair, Burlington, Vt., is Engr.

Boston, Mass.—Bids will be received until Oct. 24 by the Department of Public Works, for furnishing and erecting approximately 11,000 gas lamp post extensions and installing a like number of inverted gas lamps on lamp posts. The city will furnish the lamp posts and inverted lamps. Additional information may be obtained at the office of Louis K. Rourke, Comr.

Brookline, Mass.—The Edison Electric Illuminating Co., Boston, has been granted permission to extend its underground conduit system here.

Charlton, Mass. — A franchise has been granted to the Southbridge Gas & Electric Co., to erect transmission lines. A contract to furnish electricity to the Masonic Home has been let to the company.

✚Melrose, Mass.—A contract has been let to the MALDEN ELECTRIC Co., for lighting the city streets, for a period of ten years. An appropriation of $15,680 for street lighting, for one year, has been made. E. H. Moore is Mayor.

Salem, Mass.—The Salem Electric Lighting Co., contemplates the installation of a 3,500-KW. turbo-generator set, of the Curtis type, in its power station on Peabody St. S. F. Smith is Gen. Mgr.

✚Binghamton, N. Y.—A contract for the construction of a power-house for the Susquehanna Valley Home, has been awarded to the C. W. MITCHELL CO., at $4,573, and for a heating plant to GAYLORD & ETAPENE, Binghamton, at $3,356.

New York, N. Y.—Bids will be received at the office of the Mayor, Chairman of the Armory Board, until Sept. 26, for furnishing material and installing complete additional electric lighting system and wiring also electrical and gas fixtures to be installed in the 12th Infantry Armory, 62d St. and Columbus Ave.

New York, N. Y.—Bids will be received until Sept. 25, by M. J. Drummond, Comr. Dept. Pub. Charities, New York City, for furnishing material and making alterations and repairs to the gas works on Randalls Island, City of New York.

Oneida, N. Y.—The time for receiving bids for lighting the streets and public places for a period of one, three and five years by Albert Morris, Chn., Bd. Pub. Wks., has been extended from Sept. 15 to Oct. 3.

Rochester, N. Y.—The Rochester Ry. & Light Co., contemplates increasing the capacity of its power station No. 6 by 2,000 HP.

Pittsburg, Pa.—New machinery is needed at the Municipal power plant and the Council is considering the advisability of enlarging the plant.

+Washington, D. C.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa. by the U. S. Quartermaster's Department, Washington, D. C., for furnishing necessary transformers, wattmeters and switchboards for the army posts located at Ft. Bliss, Tex., and the Angel Island Recruit Depot, near San Francisco.

Bids will be received until Sept. 28, at the office of James Knox Taylor Superv. Arch., for furnishing and installing lighting fixtures in the United States buildings at Columbubs, Ind., Granite City, Ill., Macon, Mo., Palestine, Tex., Santa Cruz, Cal., and Eagle Pass, Tex.

Washington, D. C.—Bids will be received until Sept. 28, by the Commissioner District of Columbia, for furnishing and installing a steam engine and an electric generator in the Armstrong Manual Training School. C. H. Rudolph is Chn.

***Wheeling, W. Va.**—Bids will be received at the U. S. Engineer Office, Wheeling, W. Va., until 11 a. m., Oct. 12, for building a fire-proof power house and a chimney; and furnishing and installing one 115-HP. boiler, one steamdriven air compressor, two air receivers, one feed water heater, one feed water pump, one service water pump, piping, etc., at Dam No. 19, Ohio River. Bids will be received on the entire plant or for house machinery, etc., separate. Additional information may be obtained from Maj. F. W. Altstaetter, Corps Engrs., U. S. A.

+Honea Path, S. C.—Bids were opened Sept. 5 by the Board Public Works, for furnishing machinery, boilers, pumps, engines, etc., and materials for the electric light plant, and for c.-i. water pipe, valves, lead, etc., and tank for the water plant; also deep well, and contracts were awarded as follows: Boiler and accessories and engine with equipment to PHOENIX CO., Meadville, Pa., at $2,100; generator, exciter and switchboard, arc lamps, series lamps, regulators, switchboards, transformers, cut out blocks, fuse wire, electric watt-hour meters and motor to WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Pa., at $2,700; wire and line hardware, SOUTHERN ELECTRIC CO., Baltimore, at $3,300; poles and electric control valves to J. F. BLOUNT, Atlanta, Ga., at $860 and $150; gate valves, pig lead, hemp, pipe-cutting machine and water meter boxes to CRANE CO., Chicago, Ill., fire hydrants to COLUMBIAN IRON WORKS, Chicago, Ill., water mains, cast pipe, specials, etc., to U. S. CAST IRON PIPE CO., 71 Broadway, New York, N. Y., at $45 per ton. Triplex pump, air compressor, tank and tower, water meters, deep well, pump house, boiler house and engine room, galvanized pipe and goose necks and cork cocks not yet awarded. John F. Monroe is Chn., of the Bd., and Thomas W. Cothran, Greenwood, S. C., is Consult. Engr.

Carrollton, Ga.—A franchise has been granted to the Georgia Power Co. to supply electricity in Carrollton from its plant at Tallulah.

New Smyrna, Fla.—A municipal electric-light plant, water-works and sewer system is being considered. A. D. P. Smith, is Chn. of the Com.

Mansfield, La.—C. E. Reeves and W. D. McCormack have been granted a franchise by the City Council to lay a natural gas distributing system. The gas will be piped from the Navonton fields.

Trenton, Tenn.—A bond issue of $12,000 has been authorized to install a municipal electric light plant.

Columbus, Ohio.—Bids for furnishing the labor and material for the design, construction and delivery of material and equipment for four 75 light rectifier equipments for magnitite lights, 320 magnitite lamps and two synchronous condensers, will be received by the Dir. of Pub. Ser. until noon Sept. 27. Plans and specifications are on file in the office of Wirt S. Scott, Supt. of Electricity, Pub. Service Comn.

Peru, Ind.—An appropriation of $12,000 for the erection of ornamental electric lamps around the public square and other improvements.

Shelbyville, Ind.—An appropriation of $8,000 for new machinery and equipment to be installed at the municipal pumping station, has been made.

Battle Creek, Mich.—The Commonwealth Power Co contemplates the erection of a power plant on Union St., near the Battle Creek River. The dam now under construction will develop about 9,000 HP. and is one of thirteen to be erected on the Au Sable River.

+East Moline, Ill.—A contract for a power house and office building to be built in East Moline has been awarded to A. C. STOUFFER. The cost is estimated at $7,000.

Gillespie, Ill.—All bids received on Sept. 12 by G. W. Schmitt, City Clk., for lighting the city for a period of five, ten or fifteen years, were rejected.

+Shelbyville, Ill.—A contract to install a gas plant has been awarded to the AMERICAN CONSTRUCTION CO., Newton, Iowa, at $32,000.

+Fond du Lac, Wis.—The Common Council has awarded a contract for furnishing and installing 42 Corinthian light columns on Main St., from the court house to Division St., to CENTRAL CONSTRUCTION CO., Oshkosh, Wis., at $5,000.

+Jefferson, Wis.—The Board of Water and Light Commissioners awarded the following contracts for additional equipment for the electric lighting service station, for 125 KVA. generator, to FORT WAYNE ELECTRIC CO., Fort Wayne, Ind., and Madison, Wis.; for engine, AMES IRON WORKS, Oswego, N. Y. John J. Spangler is Mayor.

+New Lisbon, Wis.—The Common Council has awarded the general contract for the construction and equipment of an electric lighting and waterworks plant to CENTRAL CONSTRUCTION CO., Oshkosh, Wis., at $18,000.

+Shawano, Wis.—The County Board of Supervisors has awarded a contract for installing the light and power system in the new $200,000 Shawano County Insane Asylum to CENTRAL CONSTRUCTION CO., Oshkosh, Wis.

Iowa Falls, Iowa.—A vote will be taken on Sept. 25 on the proposition to issue a franchise to construct and operate an electric light and heating plant.

+Roland, Iowa.—A contract for the erection of the transmission line from Roland to Story City in connection with the municipal electric light system has been awarded to C. B. NELSON, Ames, Iowa, at $402.42 per mile, and for wiring the town to C. W. ROWLAND, Des Moines, Iowa, at $2,896. Electricity for operating the electric light system will be secured from the municipal electric plant in Story City, Iowa.

+St. Paul, Minn.—A contract has been awarded for electric, gas and gasoline street lighting to the ST. PAUL GAS LIGHT CO., for a period of two years. The PATTERSON GAS CO. was awarded a two-year contract for gas and gasoline lamp maintenance.

***Omaha, Neb.**—Bids will be received by the Board of Commissioners, Douglas County, for lighting fixtures, etc., for the new court house, at the office of D. M. Haverly, County Clk., until 11 a. m., Oct. 11. Plans and specifications may be obtained from D. M. Haverly, County Clk., or from John Latenser, Arch., 632 Bee Bldg., Omaha.

Grafton, N. Dak.—Bids will be received by the Village Board until Sept. 22 for constructing and installing an electric light plant and water-works system. Plans and specifications may be seen at the office of the Village Clerk, and at the office of Elmer L. Jensen, Eng., Harvard, N. Dak. The cost of the work is estimated at $12,500.

+Bevier, Mo.—A contract has been awarded to FAIRBANKS, MORSE & CO., St. Louis, for the construction, maintenance and operation of an electris light plant in Bevier.

Hollister, Mo.—The Ozark Power & Water Co. has been granted a franchise to build conduits and pipe lines through Greene County from its proposed plant near Hollister, Mo. Electricity will be furnished to all cities and towns located between its plant and Springfield.

Corpus Christi, Tex.—The Peoples Light Co. has retained F. H. Lancashire of Dallas and Corpus Christi to report on the ways and means for extending and enlarging the plant and system. The capacity will be doubled.

Wagoner, Okla.—Plans and specifications are being prepared for a new electric light plant and extensions to the water-works system. A bond issue of $40,000 has been made. The engineering work will be under the supervision of the Benham Engineering Co., 714 Campbell Bldg., Oklahoma City.

Pyramid, Colo.—Plans are being made by the Chuckawalla Development Co., it it is stated, to construct a large dam and power plant at Bull's Head Canyon, below Pyramid, on the Colorado River. This is part of a scheme to irrigate a large tract of land in the Chuckawalla Valley.

Boise City, Idaho.—W. S. Kuhn, Pittsburgh, Pa., and associates, are contemplating the construction of a chain of large hydro-electric plants along the Snake, near Milner and Payette, and along Salmon River. It is estimated that from 125,000 to 200,000 HP. can be developed.

Pasco, Wash.—Bids will be received until Sept. 26 by the City Council for installing 84 ornamental lamp posts with cluster lights; also for globes, wiring and conduits. L. H. Koontz is City Clk.

+Tacoma, Wash.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Pa., for a switchboard and auxiliary apparatus, power house, sub-stations and transmission line in connection with the municipal hydro-electric plant. The plant is located about 70 miles from Tacoma, on the Nisgually River, and electrical energy will be transmitted at 55,000 volts for furnishing light, power and railways in the city and vicinity.

Fort Stevens, Ore.—Bids will be received until Oct. 3, at the office of Post Quartermaster, Fort Stevens, Ore., for installation of hot water heating, including construction of basement and electric lighting for Barracks Nos. 20 and 22. Plans and specifications may be seen at the office of the Post Quartermaster.

Escalon, Cal.—The installation of an electric lighting system is planned by the Escalon Water & Light Co. This company has been recently incorporated.

Fullerton, Cal.—An electric power plant will be installed in connection with the high school buildings to be erected here.

Jamestown, Cal.—Plans are being considered to equip the Rio Tagus mine, located on Knight's Creek, with electric motors for auxiliary power.

Kelseyville, Cal.—James A. Gunn, Jr., has made application for a 50-year franchise to erect and operate electric transmission lines.

+Kingsburg, Cal.—A contract for the construction of a new power house has been awarded to JOHNSON BROS.

Long Beach, Cal.—The Long Beach Consolidated Gas Co. will expend $250,000 in the construction of a modern and complete gas plant.

Los Angeles, Cal.—Bids will be received until 2 p. m. on Sept. 28 by the Board of Education for certain wiring and other electrical work at the school on Cluster Ave. Plans and specifications may be seen at 726 Security Bldg. W. A. Sheldon is City Clk.

Los Angeles, Cal.—The Board of Public Works will receive bids until Oct. 23 for furnishing electrical machinery for the proposed power plant, to be known as San Francisquito No. 1 Aqueduct. Plans and specifications on file in office of board in City Hall. The board will receive bids up to the same time for furnishing hydraulic machinery and equipment.

Bids will be received by the Board of Supervisors up to 2 p. m., Oct. 9 for furnishing and installing the lighting fixtures in the detention home building being erected near the County Hospital. Plans and specifications may be obtained at the office of Hudson & Munsell, 415-17 Stimson Bldg., Archs.

Bids will be received by the Board of Supervisors until 2 p. m. of Oct. 9 for furnishing and installing a heating and ventilating plant, ice plant, vacuum sweeping plant, in the County Hospital on Mission Road. Plans and specifications may be obtained at the office of the board in the Court House.

Nevada City, Cal.—Plans for the construction of a large dam at Lake Spaulding have been approved by the Pacific Gas & Electric Co. The cost is estimated at $3,000,000.

+Pasadena, Cal.—A contract has been awarded to W. A. McNALLY, North Raymond Ave., by the City Council, at $34,400, for the installation of the wiring, installations and connections, including ornamental posts, for South Orange Grove Ave. A bid was submitted by G. M. Gist, of San Francisco, at $37,750.

+San Francisco, Cal.—The Placer Electric Power Co. has been incorporated here by R. A. Boiland, S. T. Harding, D. Lindemann and others, for the purpose of building power plants and to purchase water power rights and mining interests. The capital stock is $2,000,000.

+A contract for electrical work in connection with the Masonic Temple, 101 Post St., has been awarded to the GENERAL ELECTRIC CO., at $7,900, by the Masonic Temple Association. Bliss & Faville, Balboa Bldg., San Francisco, are the Archs.

San Jose, Cal.—The Great Western Power Co. is planning to extend its system of long distance transmission lines to San Jose, and will probably erect a steam plant here at once to furnish electricity for lamps and motors until the lines are completed. An expenditure of about $250,000 is estimated.

+Winnipeg, Man.—A contract for paper insulated cable has been awarded to the WIRE & CABLE CO., and for rubber insulated cable to the STANDARD UNDERGROUND CABLE CO., Pittsburgh, Pa. M. Peterson is Secy. of the Bd. of Control.

BRIDGES.

(*+Denotes a contract awarded.*)

Boston, Mass.—The construction of a bridge across the Charles River in the vicinity of Harvard College will probably be begun by the spring of 1912. It will be built under the direction of the Metropolitan Park Commission, the approaches being assumed by Boston and Cambridge. The bridge will have no draw, and is to have a clear waterway of 12 to 16 ft. in height. John R. Rablin is Ch. Engr. of Comn.

+Holyoke, Mass.—The New York, New Haven & Hartford R. R. Co. has awarded the contract for the erection of the new bridge over South Main St. to P. J. KENNEDY, JR., Holyoke. Edward Gagel is Ch. Engr. Noted Aug. 17.

+Spencer, Mass.—The contract for constructing a reinforced-concrete bridge in Spencer has been awarded to R. L. WHIPPLE, Worcester, at $5,180. Other bids were: Rendle & Stoddard, East Boston, $5,180; Cavanaugh & Witham, Gloucester, $5,173; Geo. T. Rendle, Boston, $5,230; Northeastern Construction Co., Worcester, $5,382; G. W. Carr Co., Worcester, $6,188. Harold Parker is Chn. of Comn.

+Worcester, Mass.—The Boston & Albany R. R. has awarded the contract for 4,000 tons of structural steel for the Worcester bridge to the PENNSYLVANIA STEEL CO., Steelton, Pa.

+Southampton, (L. I.), N. Y.—The Town Board has awarded the contract for building a bridge over the canal at Westhamtpon Beach to th[e C]ROTON BRIDGE CO., at $10,189. [Wo]rk will commence Oct. 1.

+White Plains, N. Y.—Th[e B]oard of Supervisors have received [bids] for rebuilding the Van Cortlandt [brid]ge over the Croton River as follows: IRVING DE REVERE, North Tarry[town], $5,800 (awarded contract); Berna[rd] F. Garland, $6,900; Franklin Cons[truct]ion Co., $6,900; for widening the [bridg]e over the Bryam River at P[ort C]hester: ROBERT J. McKEON, $3,9[illegible] (awarded contract); Bailey & Me[illegible], $4,165; Edward Jackman, $5,84[illegible]; Faillace Bros., $6,220; Leo Slater, $[illegible].

+Honesdale, Pa.—We a[re o]fficially advised that bids for co[nstru]cting a concrete arch bridge over [the] Lackawanna River, near Forest [City], were received on Sept. 15, as f[ollo]ws: (a) lump sum; (b) per cu. y[d.]: Carl R. Camp, (b) $7,34; Lay & W[illegible]le, (b) $9.35; P. T. McGowan, (a) [illegible]95, (b) $10 or $9.41; Faro Concr[ete] Co., (a) $19,862, (b) $11; T. W. [illegible]es, (a) $13,97; G. E. SCOTT, (b) $6[illegible] (awarded contract). Noted Sept. 7.

+Lenape, Pa.—The contra[ct] for constructing a stone arch brid[ge] to span the Brandywine River at L[ena]pe, has been awarded to the CORCO[RA]N CONSTRUCTION CO., West Chest[er], at $17,952. Other bids were: P. McCormick, $18,380; Dunleavy Br[os.], $22,807; Hamlin & Watson, $27,200; J. McLimans, $18,200; B. A. Sheel[illegible], $19,333; York Bridge Co., $22,981; Thomas F. O'Neil, $200,800.

Norristown, Pa.—Bids will be received by the Commissioners of Montgomery County until 11 a. m., Oct. 4, for the construction of a double arch stone bridge over Stony Creek, according to the plans and specifications on file at the office of the Commissioners.

+Renovo, Pa.—The contract for constructing the steel superstructure of a truss bridge across the West Branch of the Susquehanna River, has been awarded to the PENN BRIDGE CO., Beaver Falls, at $23,987.

+Vandergrift, Pa.—The contract for repairing the County Bridge, across the Kiskimenclos River, has been awarded to the CAPITAL CONSTRUCTION CO., Columbus, Ohio, at $5,230.

+Fenwick, W. Va.—We are officially advised that the contract for constructing a steel bridge 135 ft. long and 14 ft. wide was awarded on Sept. 11 to the OSWEGO BRIDGE CO. Noted Sept. 7.

Edgefield, S. C.—Bids will be received by the Commissioners of Edgefield County until noon, Sept. 25, for constructing a bridge over Big Stevens Creek, about two miles from Modoc, S. C. The structure will consist of a steel span 125 ft. long, with 12-ft. roadway in the clear, wooden trestle approaches, 210 ft. on east side and 105 ft. on west.

Cartersville, Ga.—Bids will be received by the Commissioners of Bartow County, until noon, Oct. 4, for constructing a 50-ft. reinforced-concrete arch bridge on the Websters Ferry Road. Plans and specifications are on file at the Court-house. G. A. Veach is Chn. Comrs.

+Charleston, Tenn.—The contract for constructing a steel bridge across the Wiwassee River, at Charleston, has been awarded to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., at $21,975.

Birmingham, Ala.—Plans have been completed by J. Gwin, County Engr., for bridges as follows: A 40-ft. bridge on the Birmingham Road, near Bessemer, and a 20-ft. bridge on the same road, a 60-ft. bridge over Black Creek, near McCalla, a 20-ft. bridge on the Newcastle Road, near Newcastle, and a 20-ft. and a 14-ft. bridge near Hueytown. Bids will soon be asked.

Springfield, Ohio.—Bids will be received by Board of Commissioners of Clark County until 2 p. m., Sept. 25, for the construction of a county bridge over the Mad River on East Snyder Road. Bids will be received on iron and reinforced-concrete superstructures. J. E. Lowry is Chn. Comrs.

Greensburg, Ind.—The Commissioners of Decatur County have appropriated money for the construction of nine new bridges in various parts of the county. Bids will be asked as soon as plans already prepared are approved.

+Laporte, Ind.—The COOPERATIVE CONSTRUCTION CO. has been awarded a contract from the Baltimore & Ohio R. R. for building a steel bridge 250 ft. long south of Goodman.

Richmond, Ind.—The Commissioners of Wayne County have ordered plans for the construction of a concrete bridge over Whitewater River in South Richmond. The structure will be 700 ft. long and 60 ft. wide. The estimated cost is $100,000.

Valparaiso, Ind.—The County Council has appropriated $27,000 for the construction of three new bridges. Bids will be asked by the County Commissioners as soon as plans are approved.

Washington, Ind.—The Commissioners of Daviess and Dubois Counties have adopted plans and specifications for the construction of a bridge over White River near Portersville. The bridge will be of steel construction with concrete floor, two abutments and one pier supporting the bridge. Bids will soon be asked.

Lockport, Ill.—Bids will be received by the Canal Commissioners until 10 a. m., Sept. 30, for constructing bridges

in accordance with plans and specifications on file with the Commissioners. Leon McDonald is Supt.

Council Grove, Kan.—Bids will be received by the County Clerk until noon, Oct. [illegible] for constructing the Hallmark bridge, a 35-ft. span combined stone and reinforced-concrete bridge in Morris County.

✚Sioux Falls, S. Dak.—The contract for constructing a 3-span concrete arch bridge over the Big Sioux River at Eighth St. has been awarded to the N. M. STARCK BRIDGE CO., Des Moines, Iowa, at $45,000. The construction work on the bridge will be begun in the near future. A pontoon bridge will be built for the use of pedestrians during the progress of the construction of the concrete bridge and the present steel structure will be removed.

Houston, Tex.—The City Council has approved the plans and specifications for the reinforced-concrete bridge to be erected over White Oak Bayou, on Houston Ave., and bids for its construction have been authorized.

✚Texas City, Tex.—The Board of Drainage Commissioners for District No. 2 have awarded the contract for the construction of a complete drainage system and necessary bridging for the district to J. C. KELSO, Galveston, at $36,200. The work involves the excavating of about 210,000 cu. yds. of material and the building of 25 to 40 small bridges.

✚Hugo, Okla.—Press reports state that the Commissioners of Choctaw County have awarded the contract for constructing 27 bridges at an approximate cost of $115,000 to the MIDLAND BRIDGE CO., Kansas City.

Newkirk, Okla.—Bids will be received by W. E. Shinn, County Clerk, until Sept. 25, for constructing a steel bridge across Chicaskia River. The structure will consist of three spans, one 120 ft. and two 80 ft. each.

Albuquerque, N. Mex.—Bids will be received by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 4, for erecting two steel bridges across the Rio Grande River near the Isleta and San Felipe Indian Pueblos, N. Mex., in accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the Commissioners, Washington, and the office of the Supervisor of Construction, Railroad Bldg., Denver, Colo.; the U. S. Indian warehouses, Chicago, Ill.; San Francisco, Cal.; St. Louis, Mo., and Omaha, Neb., and at the Builders' and Traders' Exchanges, St. Paul, Minn., and Omaha, Neb. For further information apply to P. T. Lonergan, Supt. of Pueblo day schools, Albuquerque, N. Mex. F. H. Abbott is Act. Comr.

✚Moab, Utah.—The contract for constructing a three-span concrete bridge, 600 ft. long, over Grand River, has been awarded to the MIDLAND BRIDGE CO., Kansas City, Mo. The estimated cost is $45,000.

Theodore, Utah.—Bids will be received by the Commissioners of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 10, for erecting a steel highway bridge across the Duchesne River at Theodore, in accordance with plans and specifications on file with the Commissioners; office of the Supervisor of Construction, Denver, Colo.; U. S. Indian warehouses, Chicago, Ill.; St. Louis, Mo.; Omaha, Neb., and San Francisco, Cal.; the Builders' and Traders' Exchanges, St. Paul, Minn., and Omaha, Neb., and at the agency. For further information apply to Acting Indian Agent, Uintah and Ouray Agency, Whiterocks, Utah. F. H. Abbott is Act. Comr.

Newcastle, Wash.—Bids will be received by the Commissioners of King County at Seattle until 2 p. m., Sept. 26, for the construction of a 277-ft. frame trestle known as the Morrison Trestle at Newcastle. Plans are on file with the County Engineer.

Colton, Cal.—J. S. Bright, Jr., County Surv., San Francisco, is completing plans and specifications for a steel bridge to be erected over the Santa Ana River south of Colton. It will be 18 ft. wide and 540 ft. long, composed of nine 60-ft. spans of steel trusses. Bids for the construction work will be called for shortly by the Board of Supervisors.

Los Angeles, Cal.—The Santa Fe R. R. Co. has provided for the repair of bridges in the San Joaquin Valley, to cost $22,000. A bridge will be constructed on the Visalia branch, estimated at $210,000.

✚Reedley, Cal.—The SHARP-FELLOWS CO., Central Bldg., Los Angeles, has been awarded a contract at about $160,000 for the construction of a bridge over the Kings River at Reedley, Cal., for the Santa Fe Ry. Co. It will be 680 ft. in length, with reinforced-concrete piers and abutments. There will be two steel truss spans 175 ft. each in length, the remainder of the bridge being of reinforced-concrete construction.

Turlock, Cal.—Bids will be received by the Directors of Turlock Irrigation District until 2 p. m., Sept. 25, for constructing three highway bridges. A. Sorenson is Secy.

Pasadena, Cal.—We are officially advised that bids for constructing the Columbia St. Viaduct were received on Sept. 12 as follows: Mercereau Bridge & Construction Co., $15,490; Gailey & Clark, $19,550; Mosmer & Rice, $13,622; Arthur S. Bent, $17,730; Westlake Construction Co., $15,556; Smith & Stahlhuth, $14,850. The contract will probably be awarded to the lowest bidder. Herman Dyer is City Clk. Noted Sept. 7.

✚San Andreas, Cal.—Bids have been received by the Board of Supervisors of Calaveras County, A. W. Poe, Clk., for the construction of a steel bridge over the Mokelumne River at Mokelumne Hill, as follows, (a) pin-connected bridge, (b) riveted bridge: CLINTON BRIDGE & IRON WORKS, (a) $10,530 (awarded contract), (b) $11,247; Hyde, Harges & Co., (a) $12,240, (b) $12,565; Cotton Bros., (a) $11,804, (b) $11,836; Jenkins & Wells, (a) $11,329, (b) $11,824; Healy-Tibbits Construction Co., (a) $14,990, (b) $16,323; C. W. Swain, $10,933.

✚Trois Riviers, Que.—We are officially advised that the contract for constructing a bridge over St. Maurice River has been awarded to GERMAIN & PAGE, at $11,850. The other bidders were: G. A. Gruninger, $11,950; Anseline Dube, $14,975. Noted Aug. 24.

BUILDINGS.

*(*Denotes that this work is advertised in Engineering News.)*

Chicopee, Mass.—Bids will be received until Sept. 26 by the Building Committee for the school house to be erected in Willimansett for the city of Chicopee, to be 80 × 90 ft., two stories, brick, slate roof. George Burnham is Chn. George R. B. Alderman & Bro. are the Archs.

✚Marlboro, Mass.—The contract for the building for the Marlboro Hospital Corporation has been awarded to J. E. WARREN & CO., to be of wood, plastered, two stories, 130 × 81 ft., to cost $60,000. Bigelow & Dyer, Corey Block, are the Archs.

✚Newton, Mass.—The contract for the Congregational Church building, to be built in Waban, has been awarded to F. F. JOUSBURG, 733 Old South Bldg., Boston. DAVID F. BURNS, 36 Bromfield St., Boston, has the contract for the carpentry work. James H. Ritchie, 8 Beacon St., Boston is the Arch.

✚Somerville, Mass.—The contract for the 12-room school house on Powder House Blvd., has been awarded to A. B. MURDOUGH, of Watertown; to be of brick, three stories, 178 × 61 ft., to cost $52,559. Walter R. Littlefield is Comr. of Pub. Bldgs. and architect of the building.

Waltham, Mass.—Bids will be received until Sept. 30 by the Trustees of the Massachusetts School for Feeble Minded for a brick addition to the south nurses' home. Separate bids for plumbing and steam heating. Charles E. Ware is Secy. of Bd. of Trustees. James Calderwood, 6 Beacon St., Boston, is the Arch.

Worcester, Mass.—Plans have just been completed for a store and tenement building on Shrewsbury St., for Frank Caradonna; to be 67 × 44 ft., four stories, wood and brick. O. C. S. Lirole, Knowles Bldg., is the Arch.

***Albany, N. Y.**—Bids will be received until noon, Sept. 26, by Franklin B. Ware, State Arch., Capitol, Albany, N. Y., for the labor and materials necessary for the installation of cork tile floors in the New York Education Building, Albany. Drawings and specifications may be seen at the office of Palmer & Hornbostel, Archs., 63 William St., New York City.

✚Buffalo, N. Y.—Robert North, 1330 Prudential Bldg., has completed plans and contracts have been let for construction of a parish house, 45 × 94 ft., two stories and basement, corner Lafayette Ave. and Congress St., for Grace Episcopal Congregation, Rev. John C. Ward is Rector, 1113 West Ave. LONG & RITCHIE, Franklin, Pa., have general contract.

Berrick & Meyer, 1151 Main St., are having plans prepared for a store, loft and light manufacturing building, 160 × 200 ft., five stories and basement, which they will erect at the southeast corner of Main and Northampton Sts. Estimated cost, $150,000.

Contracts have been let for the construction of a brick, stone and steel residence on Lincoln Parkway for David Ginsberg, 228 Prudential Bldg. Plans by Lansing, Bley & Lyman. The cost is $35,000. Masonry, CHAS. BERRICK & SONS CO.; steel, BUFFALO STRUCTURAL STEEL CO.; carpentry, E. M. HAGER & SONS CO.

The Main St. Realty Co., John W. Gibbs, Pres., 202 D. S. Morgan Bldg., is having plans prepared for a 2-story and basement store and office building, 100 × 200 ft., brick and steel, to be erected at the northeast corner of Main and Northampton Sts.

Louis Lempert, Cutler Bldg., Rochester, has completed plans for a theatre building, with a seating capacity of 2,000, for Michael Shea, of this city, to be erected at West Genesee and Pearl Sts. on the site of the Central Presbyterian Church. The estimated cost is $200,000.

✚Ithaca, N. Y.—THE DUROLITHIC CO., of 460 Ellicott Sq., Buffalo, N. Y., has been awarded the contract for horse barn at the New York State College of Agriculture at Cornell University, Ithaca, N. Y. C. A. Martin and George Young, Jr., are the Archs. under direction of the State Architect. The building will be approximately 350 × 43 ft., three stories high and of concrete, steel and wood.

New York, N. Y.—Bids will be received by the Department of Education, Park Ave. and 59th St., New York City, until Oct. 2, for Item 1, general construction; also Item 2, plumbing and drainage of new Public School 92, on the northerly side of Hayes Ace., between 42d and 43d Sts., Corona, Boro. of Queens. C. B. J. Snyder is Supt. of School Bldgs.

New York, N. Y.—Stuckart & Sloan, Archs., of Philadelphia, Pa., have filed plans for a 3-story restaurant to be erected in the west side of Broadway, 71.7 ft. north of 46th St., for C. Willis Funk, of Philadelphia, Pa., at a cost of $80,000. It will have a frontage of 70.10 ft., a depth of 73.6 ft. on one side, 64.1 ft. in the rear and 83.4 ft. on the other side. It will be fireproof with a facade of terra cotta at the third story, the rest of the building being almost entirely of ornamental colored glass of special design.

Plans have been completed by Rouse & Goldstone, 38 West 32d St., for the construction of a 12-story apartment house, 50 × 81 ft., at 747 and 751 West End Ave. The cost is $175,000. The 749 West End Ave. Co., 160 Broadway, is the owner.

Plans have been completed by Smith & Miller, 1181 Broadway, for the construction of a 6-story tenement building on the southwest corner of John Jay Park and 77th St. The Open Stair Tenement Co., 20 Broad St., is the owner. The cost is $100,000.

Plans have been prepared by J. C. Cocker, 2017 Fifth Ave., for the erection of two 5-story tenements at St. Nicholas Terrace and 127th St. The Schuck Realty & Construction Co., 19 St. Nicholas Pl., is the owner. The cost is $101,000.

Plans have been completed by Schwartz, Gross & Marcus, 347 Fifth Ave., for the erection of 12-story apartment building. Harry Schiff, 301 West 82d St., is the owner. The cost is $750,000.

Plans have been completed by W. B. Chambers, 109 Broad St., for the erection of a 9-story apartment house at 135 West 58th St. The 135 West 58th Street Co., 18 West 27th St., is the owner. The cost is $125,000.

Plans are being prepared by Moore & Landsiedel, 148th St. and Boulevard Ave., for the erection of two 5-story tenement buildings, 50 × 113 ft., on the west side of Vermilyea Ave., south of Academy St. The Bendheim Construction Co., 128 Broadway, is the owner. The cost is $100,000.

New Paltz, N. Y.—John Arbuckle will reconstruct the Arbuckle Home for Cripples. The structure will be double its former size. The building was recently burned, entailing a loss of about $60,000.

Rochester, N. Y.—Gordon & Madden, Sibley Bldg., have completed plans for a brick, stone and structural steel school building, 76 × 136 ft., three stories and basement, to be built on West Ave. by the Church of Sts. Peter and Paul., Rev. Emil Gefel, Pastor.

Schenectady, N. Y.—Bids will soon be asked for by Odd Fellows Temple Association, Charles Reicherter, 1138 State St., Chn. Bldg. Com., for a $30,000 temple to be built at corner Hawk and State Sts. Herman Franch, 831 Grant St., is Arch.

✚Utica, N. Y.—The TURNER CONSTRUCTION CO. has received general contract for erection of 5-story and basement warehouse, 90 × 286 ft., reinforced concrete, to be erected by Johnson & Murray on Whitesboro St.

Yonkers, N. Y.—The Board of Education has directed C. C. Chipman, Arch., to prepare plans for an 8-room instead of a 4-room school building in Lincoln Park. The cost will approximate $50,000. The architect also is preparing plans for a 4-room school in the Nepera Park section. J. H. Claxton, Secy.

Gloucester, N. J.—Bids are being received by Harry W. Wehmeyer, 1004 W. Lehigh Ave., Philadelphia, Pa., until Sept. 26 for the construction, complete, of a detention building for Philadelphia Immigration Station, at Gloucester.

Kearny, N. J.—Bids will be received by the Board of Education until Oct. 2 for the construction of an 18-room school and auditorium at Belgrove Drive and Woodland Ave. Plans by H. King Conklin, Arch., 665 Broad St., Newark.

✚Newark, N. J.—The contracts for erecting Cleveland School at Bergen St. and Waverly Ave., has been awarded by the Bd. of Education to W. H. FISSELL & CO., 118 North Sixth St., general contract and painting, $181,000; PAYNE BROS., INC., Emmett St., Waverly, steel and iron work, $17,474.

✚Newark, N. J.—It is reported that the contract has been awarded to the HEDDEN CONSTRUCTION CO., 38 Academy St., for the erection of a 3-story white marble building at 753 Broad St., for the Essex County National Bank. The cost is about $150,000.

Newark, N. J.—Plans are being prepared by Romolo Bottelli, 191 Market St., for two 4-story apartment buildings at Warren and Summit Sts. Angelo Guiliano is the owner. Cost, $60,000.

Soho, N. J.—It is reported that plans have been approved by the Public Building Committee Board for the erection of seven brick buildings at the Essex County Hospital for Contagious and Infectious Diseases at Soho. Hurd & Sutton, Newark, prepared the plans. The cost is $85,000.

Coraopolis, Pa.—An armory will be erected here for the Coraopolis Cavalry Troop. The armory will be of medieval castle style of architecture, the maximum dimensions 180 × 250 ft. The foundation will be of concrete and cut stone, the superstructure walls of red or buff brick and stone trimmings. The roof of the administration building will be covered with slate laid in asphalt and the roof of the main drill hall will be of circular form covered with curved glass. A balcony with a seating capacity of 1,000, exclusive of the main floor, will extend around the hall. All of the floors with the exception of the drill hall will be of quarry tile. The interior walls will be lined with facing brick in various designs with pastered ceilings. The basement will consist of a rifle range, bowling alley, artificer's room, farriers' room, camp equipment storage room, ammunition vault, boiler plant, coal storage room and janitor's quarters.

✚Hazelton, Pa.—The contract for the erection of Hazleton's $73,000 city hall has been awarded to H. L. CAMPBELL.

Parnassus, Pa.—By a vote of 122 to 76 the proposed issue of $40,000 bonds to provide for the erection of a high school building was approved by the electors of Parnassus. The proposed building will be of terra cotta brick and contain eight rooms.

Philadelphia, Pa.—P. Matzinger, Arch., has completed the plans for an assembly hall for the Emanuel Lutheran Congregational congregation at Scranton Rd. and Superior Ave.

✚New Castle, Pa.—The Congregation of Second United Presbyterian Church is reported to have awarded the contract to S. HUEY, to erect an edifice. Probable cost, $50,000.

✚Pittsburgh, Pa.—The contract has been awarded to J. G. FULLMAN for erecting an apartment house at Ellsworth Ave. and Clyde St., for H. T. Gabel, at a cost of $40,000. C. E. Willoughby, 424 Fourth Ave., is Arch.

Baltimore, Md.—Plans are being prepared by Henry J. Tinley, Arch., 314 North Charles St., for the erection of an apartment house at Whitelock St. near Druid Hill. The structure will be three stories high, built of brick and stucco, with stone ornamentations. The interior will be finished in oak and mahogany, with hardwood floors. It will be 30 × 94 ft., with slate roof and concrete foundation. The building will cost about $40,000. Herman Scherr is owner.

Newberry, S. C.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Oct. 11 for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring and lighting fixtures), of the post-office at Newberry, S. C. Drawings and specification may be obtained from the Custodian at Newberry, S. C., or at the office of the Supervising Architect.

***Florence, Ala.**—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 31, for the construction (complete except elevator), of the United States post-office at Florence, Ala. The building is to be three stories in height with a ground area of approximately 6,000 sq. ft. of fireproof construction with stucco facing and stone trim. Drawings and specifications may be had from the Custodian of site at Florence, Ala., or at the office of the Supervising Architect.

Gretna, La.—Bids will be received by the School Board until Sept. 28 for erecting an addition to the McDonough School No. 26. Plans by Andry & Bendernagel, Archs., 706 Tulane-Newcomb Bldg., New Orleans.

Columbus, Ohio.—Plans and specifications have been prepared by Maetzel, Tresselt & Basset, Archs., for a large 5-story reinforced-concrete business block for the D. Kelly Co. to be located on North Front St.

The State Board of Agriculture will receive bids until Oct. 11 for the construction of an addition to the sheep exhibit building on the Ohio State Fair grounds.

Ironton, Ohio.—The Board of Education will receive bids Sept. 26 for labor and materials necessary to erect a new school building to be known as the Campbell School.

✚South Bend, Ind.—The contract for the new high school building to be erected has been awarded the H. G. CHRISTMAN CO., of this city, by the Board of Education. The contract price for the structure is $285,904. The Christman Co. was the only local bidder and submitted the lowest bid of the 14 sent by contractors in various parts of the country. Contracts for wiring, heating, ventilating and plumbing will be let at a later date.

Crystal Falls, Mich.—John D. Chubb, 32 North Clark St., Chicago, Ill., has been selected to prepare plans for a new city hall for the city of Crystal Falls, Mich.; cost, $50,000.

Grand Rapids, Mich.—Robinson & Campau, 449 Houseman Block, are preparing plans for a 4-story and basement high school, 250 × 70 ft., and two stories. Gymnasium, 100 × 104 ft., for the Board of Education of Kalamazoo, Mich. H. H. Buckhout, Secy. Architects will take figures about Dec. 1. Cost, $280,000.

Kalamazoo, Mich.—Dr. C. E. Boys, 603 Kalamazoo National Bank Bldg., is contemplating a 2-story and basement office building, 50 × 100 ft. Architects have not been selected.

✚Detroit, Mich.—Joseph E. Mills, 510 Washington Arcade, has awarded the following contracts for the 4-story and basement hotel, 34 × 92 ft., for C. L.

Randall, of Oxford, Mich.: Masonry, to CORRICK BROS., 809 Stanley St.; carpentry, to TONN & SCHREIBER, 1275 Bellevue Ave.; steam heating and plumbing, to ERNEST BROS., 414 Woodward Ave. Cost, $40,000.

✚Burrows & Wells, 701 Trussed Concrete Bldg., have awarded the following contracts for the 2-story and basement residence, 60 × 75 ft., for Sidney T. Miller, 1124 Penobscot Bldg.: Masonry, to CORRICK BROS., 809 Standley St.; carpentry to C. KELLAR, 657 Canfield Ave., E; steam heating and plumbing, to HARRIGAN & REID, 70 State St. Cost, $50,000.

B. C. Wetzel Co., 404 Hammond Bldg., is preparing plans for a 1-story and basement library building, 70 × 110 ft., for the city of Detroit Library Association. Ralph Phelps, Secy., 17 Butler Bldg. Cost, $35,000.

✚Green Bay, Wis.—The general contract for the erection of an edifice for the German Methodist congregation at Doty and Clay Sts. has been awarded to ERNEST W. SERVOTTE, of Green Bay. Rev. A. H. Otto is Pastor.

Oshkosh, Wis.—J. S. Fluor, Arch., will receive bids until Sept. 20 for the construction of a printing office and shop for the Hicks Printing Co. on State St. Cost, $45,000.

Milwaukee, Wis.—Plans are being prepared by Chicago architects for a $200,000 joss house and Chinese temple to be erected on Second St., near Grand Ave., by the Wing Lung Co., of Chicago. It will have dimensions of 50 × 150 ft. and will be six stories high.

Racine, Wis.—The Board of Education has taken options on two pieces of property on DeKoven Ave. and at Green and Gould Sts. for the proposed public school buildings to cost $75,000 each. W. S. Goodland is Mayor.

✚Milwaukee, Wis.—The contract for piling and excavations for the proposed $100,000 Merchants and Manufacturers' Bank Building, West Water St., near Grand Ave., was awarded to C. H. STARKE DREDGE & DOCK CO., Milwaukee, Fernekes & Cramer, Archs.

Des Moines, Iowa.—A 10-story hotel building will be erected on the southeast corner of Fourth and Walnut Sts. by Woolf Zachara. The building will cost $350,000.

Hawarden, Iowa.—Bids will be received by the Rev. M. Bradley, until Sept. 23, for erecting a 2-story and basement brick parochial school. Joseph Schwarz, Sioux Falls, S. Dak., is Arch.

Moville, Iowa.—Bids will be received until Oct. 2 by James Graham, Clk. Independent School, for material and labor necessary to erect a school. G. W. Burkhead, Sioux City, is Arch.

***Omaha, Neb.**—Bids will be received by the Board of County Commissioners for the County of Douglas, until 11 a. m., Oct. 11, for the cells, cell fixtures, etc., for the jail of the new Douglas County court-house. Plans and specifications may be obtained from John Latenser, Arch., 632 Bee Bldg., Omaha. D. M. Haverly, Omaha, Neb., is County Clk.

Minot, N. Dak.—Bids will be received by F. A. Wilson, Secy. State Bd. Normal School Trustees, until Sept. 26, for erecting a school and boiler house at Minot; also separate bids for heating, plumbing, ventilation and electric wiring. Haxly & Gillespie, Fargo, are the Archs.

✚Nacogdoches, Tex.—The Commissioners Court has awarded the contract for the erection of a court house here to W. C. WHITNEY, of Beaumont, his bid being $51,700, exclusive of wiring and plumbing.

✚Rockport, Tex. — The Rockport Hotel Co. has let the contract for the erection of a hotel here to L. W. GILLETTE, JR., of Beeville, Tex. The building will cost about $50,000. It will be of brick construction.

Parker, Ariz.—The Government has called for bids for the installation of a large pumping plant and digging of ditches on the Indian reservation here. E. W. Egan has been appointed engineer for the installation of the project. The cost is estimated at $45,000.

✚Seattle, Wash.—GRANT, SMITH & CO., of Seattle, have secured the contract for erecting a 3-story reinforced concrete store and office building, 120 × 190 ft., for C. H. Cobb on Third Ave. Howey & Stokes, Archs., White Bldg. The cost is $200,000.

Los Angeles, Cal.—A permit for the erection of a 4-story brick apartment house to contain 88 rooms, to be erected at 685 Witmer St., was granted to B. G. Adams, 606 Story Bldg. The structure is to cost $50,000.

Bakersfield, Cal.—Local physicians are making arrangements for the erection of a reinforced-concrete hospital building to cost $50,000. One-half this sum has already been subscribed.

✚Bakersfield, Cal.—O. T. Clark, Brower Bldg., Arch., awarded contracts as follows for the erection of a 2-story brick school house at Taft: C. D. BROWN, Bakersfield, carpenter work at $42,500; MACHINERY ELECTRICAL CO., of Los Angeles, heating and ventilating.

Norwalk, Cal.—Robert H. Orr, Arch., State Bank Bldg., Pomona, Cal., has completed plans for the High School to be erected at Norwalk for the Excelsior High School district. The building will be one story and basement, 140 × 193 ft., and will contain an auditorium and gallery with seating capacity of 560, four science rooms, commercial department and three class rooms. Will have concrete foundation and basement, reinforced concrete exterior walls, composition and clay tile roof, concrete floors in halls, pine trim and floors in class room, plumbing, electric wiring and heating system. Bids will be received until Sept. 30 by the Board of Trustees. Separate bids will be taken for plastering, heating and plumbing. D. D. Johnston of Norwalk is Clk of the Board. Plans may be obtained from the architect.

San Diego, Cal.—The San Diego Ice & Cold Storage Co. will erect a storage plant on a one-quarter block site on K St.

Oakland, Cal.—The bids of the contractors for the plastering and stone work on the City Hall were submitted to the Council and later turned over to City Attorney Woolner and J. J. Donovan, Supt. of Constr. The bids were as follows: C. Knowles, $51,000; Smythe Bros., $57,500; C. C. Moorehouse, $56,600.

Benjamin G. McDougall, Sheldon Bldg., San Francisco, is preparing plans for the St. Pauls Episcopal Church, to be erected in Oakland. The structure will be of Class A construction and will cost $125,000.

✚Los Angeles, Cal.—GEORGE M. EASTON, 436 West 30th St., was awarded the contract at $40,500 for the construction of a 3-story and basement brick apartment house, 41 × 155 ft., to be erected at 520 South Flower St., for Mrs. G. Pellessicr. It will contain 72 rooms.

San Bernardino, Cal.—Norman F. Marsh, Arch., 212 Broadway Central Bldg., Los Angeles, has been commissioned, subject to the issuance of bonds, to prepare plans for a polytechnic high school, to be built at San Bernardino. The Board of Education has called a bond election to vote bonds in the sum of $230,000, of which $200,000 will be used for building purposes and $30,000 for equipment. A group of six buildings is contemplated. The construction will be Class "C." The school will be designed to accommodate 1,000 students and will be one of the largest outside of Los Angeles. A 20-acre site for the buildings was purchased a year ago.

San Francisco, Cal.—The Constructing Quartermaster Department at Fort Mason, Lt. Col. George McK. Williamson in charge, is preparing plans for a large kitchen building. The structure will be 58 × 84 ft., two stories in height and of reinforced concrete construction. The kitchen will be equipped with the latest appliances.

✚The Board of Trustees of St. Ignatius College awarded the contract, through the offices of Charles J. I. Devlin, Pacific Bldg., to O'CONNOR & COLLINS, for brick work, granite, sandstone, terra cotta, fireproofing and steel work, on a church building at Fulton and Parker Sts., at $85,036.

The working drawings for the Mount Zion Hospital, a $100,000 class A structure which is to be erected at Post and Scott Sts., are nearing completion in the office of J. E. Krafft & Sons, Archs. The building will be two and three stories high with a steel frame and a reinforced concrete exterior walls, terra-cotta partitions and concrete floors. Plans will be out for figures in the course of the next month.

✚The Board of Pubic Works has awarded the contract to McSHEELEY BROS., 47 Langeton St., for the carpentry work at the San Francisco Hospital. The contract price is $53,742.

San Jose, Cal.—William Bender, Rea Bldg., San Jose, has been retained to prepare plans for a Y. M. C. A. building, to be erected in San Jose. The structure will be four stories and of fireproof construction and will cost $100,000.

Venice, Cal.—The Venice Building Co. will erect a 4-story brick store building, 65 × 100 ft., on Windward Ave. The structure will cost $50,000.

✚Winnipeg, Man.—The contract for the Hotel Selkirk, owned by the Grand Trunk Pacific Ry., has been awarded to the GEORGE A. FULLER CO. OF CANADA. The cost will be about $2,000,000.

WATER SUPPLY—IRRIGATION.

(✚Denotes a contract awarded.)

Boston, Mass.—The following bids were received on Sept. 14, by the Department of Public Works for excavating for and setting 900 meter boxes in East Boston; C. J. Jacobs Co., $3,345; Charles M. Callahan, $4,043; Michele de Sisto & Co., $4,095. Louis K. Rourke is Comr. Pub. Wks.

Bids for laying 2,200 ft. of 10 and 12-in. water pipe in three streets in Dorchester and West Roxbury will be received until Sept. 22, by the Public Works Department. Louis K. Rourke is Comr.

✚The contract for two pumps of 3,000,000 gallons capacity for which bids were opened by the Metropolitan Water and Sewerage Board on Sept. 1, has been awarded to the LAIDLAW-DUNN GORDON CO., 115 Broadway, New York. Dexter Brackett is Chief Engr. Noted on Sept. 7.

Greenfield, Mass.—The Chase-Harriman Co., of Boston, Mass., has had plans drawn for another dam on the Deerfield River. The structure will be about 60 ft. in height.

✚*Shelburne Falls, Mass.—It is reported that the contracts for the erection of dams Nos. 2 and 4 on the Deerfield River for the Chase-Harriman Co., of Boston, Mass., have been awarded to the FRAZER-BRACE CO., 1328 Broadway, New York, and that for the new structure to replace the present Lampson & Goodnow dam to the FRED T. LEY CO., INC., of Springfield, Mass., and Waterbury, Conn.

✚Pittsfield, Mass.—Bids were received as follows on Sept. 11 by the Board of Public Works for laying water pipe: CARDNER & MONTAGUE, Springfield, Mass., $4,183 (awarded contract) Jolin E. Palmer, Boston, Mass., $4,245; Antonio Lando, Waterbury, Conn., $4,413; A. O. Bullard, Sterling, Mass., $4,569.

New York, N. Y.—The following bids were received on Sept. 8 by Henry S. Thompson, Comr. Water Supply, Gas and Electricity for hauling and laying water mains and appurtenances in various streets in the Borough of The Bronx: Wilton Construction Co., $69,582; Daly Bros. Co., $75,236; W. H. Masterson, $55,330; L. D. Gregory, Pilot St., City Island, $41,620; Walton Construction Co., $64,688.

✚The Board of Water Supply has awarded contract 87, for constructing the Brooklyn conduit of the Catskill Aqueduct to WM. F. DONOVAN & CHARLES CRANFORD, 186 Remson St., Brooklyn, at $366,015. Noted on July 20 and Sept. 14.

New York, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas & Electricity, until 2 p. m., Sept. 27, for furnishing, delivering and installing a forced draft system, with all appurtenances complete, in the 98th St. Pumping Station, Boro. Manhattan.

✚Silver Springs, N. Y.—The contract has been awarded to WILLIAM SAMMEOHAYS & SONS, Rochester, N. Y., for the construction of a power house, pumping station and foundations for engines for water-works at Silver Springs.

Jersey City, N. J.—The Street and Water Board has awarded the contract for repairing the old 36-in. water pipe under the Hackensack River to the NEW YORK MARINE CONTRACTING CO., at $7,000. The contracting company guarantees to keep the pipe in proper condition from shore to shore for one year.

Gettysburg, Pa.—The Gettysburg Water Co., it is reported, has decided to construct a filtration plant. Estimated cost, about $30,000.

Huntingdon, Pa.—Bids will be received until Sept. 25, by the Huntingdon Water Supply Co., Huntingdon, for the construction of a 140-ft. concrete dam, seven feet high, a 65-ft. retaining wall, ten ft. high, concrete fishway and concrete inlet channel. Plans have been prepared by Guy H. Colony, Consult. Engr., Huntingdon.

✚Juniata, Pa.—The contract has been awarded to the VIPOND CONSTRUCTION CO. of Altoona, Pa., for constructing a 20,000,000-gallon reservoir at $21,339. Harvey Linton is Engr., Altoona.

✚Pittsburg, Pa.—The Department of Public Works has awarded the contract for coal and ash handling apparatus for the Aspinwall pumping station to the LINK-BELT CO., at $25,875.

Albemarle, N. C.—The city will install a water-works system. Gilbert C. White, of Charlotte, N. C., and Durham, N. C., is Engr.

✚Murphy, N. C.—The city has awarded the contract to A. A. FAIN to extend the water-works system, including 2¼ miles of 8-in. main and 16 × 16 × 8 concrete filter plant with a capacity of 216,000 gallons. Estimated cost, $25,000; Max R. Hall, Atlanta, Ga., is Engr.

Cordele, Ga.—The city is considering a bond issue for $20,000 for the extension of the water and sewer systems.

Jessup, Ga.—The city has employed Arthur Pew, Consult. Engr., Eastman, Ga., to prepare plans for the installation of water-works. Estimated cost, $25,000.

Jackson, Ga.—The citizens have voted to issue $12,000 of bonds for improving the water-works system and electric light plant.

Newnan, Ga.—Bids will be received until Sept. 27 by the Newnan Water and Light Commission for constructing 1,500 ft. of 16-in., 4,800 ft. 8-in. and 2,000 ft. 6-in. sewer lines and relaying 1,400 ft. 4-in. c.-i. pipe with 8-in. and laying 3,000 ft. 4-in. c.-i water mains.

Summerville, Ga.—See item under Sewers.

Alabama City, Ala.—The city contemplates issuing from $40,000 to $50,000 of bonds for construction of water-works and an electric-light plant.

Gadsden, Ala.—The city is considering the construction of a reservoir at the water-works plant with a capacity of 4,000,000 gallons. Estimated cost, $16,000.

✚Clarksdale, Miss.—The city has awarded the contract to J. C. MISHLER, of Chattanooga, Tenn., for extending the water-works and sewer systems into Dolan, Oakhurst and Myrtle Hall, suburbs of Clarksdale. Total cost, about $60,000.

Cleveland, Ohio.—The F. A. Pease, Engineering Co., 930 Williamson Bldg., Cleveland, has prepared plans for 1½ miles of 10-in. pipe water mains in Euclid Road to cost $30,000, and four miles in Lake Road to cost $50,000. Bids will be asked.

Linndale (Cleveland post office), Ohio.—Bids will be received by George H. Fellows, Village Clk., 1009 Williamson Bldg., Cleveland, until noon Sept. 27, for the construction of water-mains in portions of Peelor Ave. B. Davis & Son, are Engrs., 207 [illegible] Arcade, Cleveland.

Fort Wayne, Ind.—The Board of Trustees of the Indiana School for Feeble-Minded Youth on Sept. 12, opened bids as follows for the construction of a 850,000-gallon reservoir on the grounds of the institution. W. H. Tapp Construction [illegible], $8,892; F. W. Kintz & Son, $9,1[illegible]; Bernard Borkenstein, $8,390.

Jefferson, Ohio.—Bids will be received by the Trustees of Public Affairs until Sept. 29 for furnishing material and enlarging the present water works dam by constructing a dam thereon 4 ft. 3 ins. higher than the top of the present dam.

Sebring, Ohio.—The Sebring Water Co., has employed Chester & Fleming, Consult. Engrs., Pittsburg, Pa., to prepare plans and specifications for the installation of additional pumping machinery.

Owensville, Ind.—The town Council is preparing to let a contract for the construction and equipment of a municipal water-works system.

✚Marquette, Mich.—The City of Marquette has awarded the contract for the construction of a series of storage dams and reservoirs on Dead River to the O'KEEFE-ORBISON ENGINEERING & CONSTRUCTION CO., of Appleton, Wis.

Muskegon, Mich.—Bids will be received by B. H. Tellman, City Recdr., until 5 p. m., Oct. 2 for 7,000 ft. of 6 to 48-in. c.-i. intake pipe, intake well at shore of Lake Michigan and watermain for the distribution systems, including valves, hydrants and pipe connections with existing mains. The Riggs & Sherman Co., is Engr., 613 The Nasby, Toledo, Ohio.

Bement, Ill.—The city proposes to spend $7,616, for water mains. J. R. Bower, of Bement, is Engr.

Chicago, Ill.—Bids will be received until Sept. 21 by L. E. McGann, Comr. Pub. Wks., for furnishing and delivering at City Pipe Yard "B," 2352 South Ashland Ave., 2,000 ¾-in. and 1,000 1-in. brass bibb cocks.

✚Genoa, Ill.—The city has awarded the contract for driving a 10-in. well from 100 to 200 ft. deep to W. B. GRAY & BROS., of Chicago, at $2.50 per ft. Bids were opened on Sept. 8.

✚Stanford, Ill.—We are officially advised that the contract for constructing a system of water mains has been awarded to C. C. BOWMAN, at $5,968. Other bids were: Geo. McIntosh, $6,151; Delahanty & Co., $6,518; Chris. Ebert, $7,111. Noted on Sept. 7.

Lostant, Ill.—Bids will be received by C. A. Whitney, Pres. Bd. Trustees, until 7.30 p. m., Sept. 26, for furnishing one deep well pump of 70 gallons per min. capacity, including brass working barrel, 50 lin. ft. of drop pipe, working rods, power head, erecting pump on foundations and furnishing and laying approximately 50 ft. of 8-in. c.-i. pipe; also furnishing one 10 HP. gasoline engine and foundations for same. Hugh M. Price, is Engr., 1207 Hartford Bldg., Chicago, Ill.

Clinton, Wis.—The Village Board has awarded the contract for furnishing a pumping engine for the waterworks station to the JOHN THOMPSON CO., Beloit, Wis.

Milwaukee, Wis.—J. A. Mesiroff, City Engr., has submitted estimates and tentative plans for a new intake for the municipal water-works at the foot of Linwood Ave., 4,000 ft. long, and a new pumping station on the Milwaukee River at Chambers St. Total cost, $850,000. Harry E. Briggs is Comr. Pub. Wks.

Sun Prairie, Wis.—Bids will be received by J. B. Rood, Secy. Water Comn. until 7.30, Sept. 26, for constructing a steel water tank with hemispherical bottom 19 ft. in diameter by 35 ft. high. Plans are on file at the office of W. G. Kirchoffer, 31 Vroman Bldg., Madison, Wis.

✚Council Bluffs, Iowa.—The following contracts have been awarded for the construction of the water-works plant: To C. C. NORGAARD, Council Bluffs, for settling reservoir, at $41,500; ALLIS-CHALMERS CO., Milwaukee, Wis., two 100HP. motors, $1,504; SNOW STEAM PUMP CO., Buffalo, pump, $22,513; 5,000 bbls. of portland cement, GEORGE A. HOAGLAND LUMBER CO., at 98 cts. per bbl.

Casey, Iowa.—The citizens on Sept. 4 voted to issue $14,000 of bonds for the construction of a water-works system. E. A. Betts is Town Clk.

Grand Rapids, Minn.—The Water, Light, Power and Building Commission will receive bids until 8 p. m., Sept. 25, for the construction of a water tower and tank. W. B. Patton is Engr., Duluth, Minn.

Cuyuna, Minn.—The Duluth Engineering Co., of Duluth, Minn., is preparing plans for water-works and a sewer system here. Estimated cost, about $20,000.

Englewood, Kan.—Bids will be received, soon for the construction of a system of water-works and electric lights. Estimated cost, $20,000. The J. S. Worley Co., is Engr., Reliance Bldg., Kansas City, Mo.

Alliance, Neb.—Bids will be received until 3 p. m., Sept. 30, by J. D. Emerick, City Clk., for the construction of a building and the installation of machinery for the light and water department.

+Crawford, Neb.—Contracts for pipe and fittings and construction of the water-works plant here, have been awarded to the PORTLAND WOOD PIPE CO. and the INTERMOUNTAIN BRIDGE & CONSTRUCTION CO.

Grafton, Neb.—Bids will be received by the Village Board until 8 p. m., Sept. 2[illegible], for the construction of a water-works plant. Elmer L. Jensen, Harvard, Neb., is Engr.

Oakdale, Neb.—Bonds for the extension of the water-works system here have been voted.

+Ogallala, Neb.—The contract for constructing the water-works here, has been awarded by the city to the ALAMO ENGINE CO., of Omaha, Neb.

Upland, Neb.—Bids will be received by the village until 8 p. m., Oct. 2, for the construction of water-works here. The Alamo Engine & Supply Co., is Engr. T. R. Bucknell is Village Clk.

Vermillion, S. Dak.—The following bids have been opened for erecting a steel tower and tank: Minneapolis Steel & Machinery Co., Minneapolis, $6,915; W. D. Lovell, Minneapolis, $7,135; Chicago Bridge & Iron Co., Chicago, $6,990; Cook Construction Co., Des Moines, Iowa, $7,200; DES MOINES BRIDGE & IRON CO., Des Moines, Iowa, $6,788, (awarded contract). The Missouri Valley Engineering Co., Mitchell, S. Dak., is Engr.

Lake Andes, S. Dak.—The city proposes to expend about $8,000 for improvements to the water-works.

Newell, S. Dak.—Bids will be received until Oct. 2 by the U. S. Reclamation Service, Belle Fourche, S. Dak., for constructing approximately 1,665 lin. ft. of 30-in. and 2,227 lin. ft. 42-in. wood stave pipe in the vicinity of Newell.

Minot, N. Dak.—L. J. Thompson, City Audr., will receive bids until 8 p. m., Sept. 25 for the construction of 5,000 ft. of 6-in. water main.

Williston, N. Dak.—The Council has voted to construct water mains in District No. 1.

+St. Ignatius, Mont.—The Secretary of the Interior, Washington, D. C., has awarded the contract to NELSON RICH of Prosser, Wash, for the construction of Pablo dams and canals, Flathead irrigation project, Mont. Three dams and 8½ miles of canals are included in the contract, involving the placing of about 234,000 cu. yds. of earth excavation in the dams and the excavation of about 200,000 cu. yds. of material from the canal. The work is located from two to three miles south of Polson, Mont. The contract price is $115,693 for Class "A" material, or $116,093, for Class "B." Bids were opened on Aug. 25. List of bidders noted on Sept. 14.

Balmorhea, Tex.—Steps have been taken to erect a large dam across Barila Canyon, in the Devis Mountains for the purpose of forming a water storage reservoir to irrigate 34,000 acres of land. David M. White, C. E., is interested.

Cotulla, Tex.—Noah Allen of Brownsville, Tex., is promoting the organization of an irrigation district near here with the view of reclaiming about 60,000 acres of land. The work will involve the erection of a dam across the Nueces River and the construction of a large system of canals.

+Hearne, Tex.—The City Council has let the contracts for the machinery and other material for the proposed municipal water-works plant and distributing system. The UNIVERSAL PIPE MFG. CO., of Birmingham, Ala., secured the contract for the mains and fittings; the CHICAGO STEEL & IRON WORKS, of Chicago, Ill., for the storage tank and water tower; and the A. M. LOCKETT MACHINERY CO., of Dallas, Tex., for boilers, engine, pumps, heater and air compressor.

Killeen, Tex.—The city is considering an issue of $16,000 of bonds for the installation of a municipal water-works system.

San Antonio, Tex.—The Medina Irrigation Co., has finished the surveys for its proposed dam across the Medina River near here. The structure will be 165 ft. high and 228,000 cu. yds. of concrete will be used in its erection. An overflow diversion dam 48 ft. high will be built a short distance below the main dam. The main canal will be 28 miles long. Each will have an average width of 15 ft. on the hill side and 20 ft. on the level. The work also involves the construction of two concrete syphons across the Medina River. The construction of the main canal will involve the excavation of approximately 1,400,000 cu. yds. of material. There will be about 400 miles of sanitary canals and laterals.

Nocona, Tex.—Bids addressed to Walter Hodges, Mayor, for furnishing water-works material and equipment will be received by the City Council, until 8 p. m., Oct. 2, to include a 500-gallon-per-min. rotary pump; 100-gallon-per-min. deep-well pump; 20 HP. gasoline engine, 75,000-gallon steel tank and tower, 100 ft. over all; 120 tons 4, 6 and 8-in. c.-i. pipe; valves and hydrants. The Fountain-Shaw Engineering Co., is Engr., 308 Andrews Bldg., Dallas, Tex.

+Vian, Okla.—The Board of City Trustees has awarded the contract for the installation of the water-works system to the TERRY CONSTRUCTION CO., of Poteau, Okla., at $17,364.

Dustin, Okla.—The city has voted $25,000 of bonds for the construction of a water-works system.

McAlester, Okla.—Bids will be received until 9 a. m., Sept. 29, by the city for the construction of an earthen dam and concrete-lined spillway for the city in the water reserve. J. M. Gannaway is City Clk.

Wainwright, Okla.—We are officially advised that the contract for constructing the water-works system here was awarded to DON A. TALBERT of Ada, Okla., on Sept. 14. Edgar M. Graham, Muskogee, Okla., is Engr.

Fort Logan, Colo.—Bids will be received until Sept 28, by Capt. T. T. Frisel, Q. M., U. S. A., Fort Logan, for furnishing and delivering a miscellaneous quantity of pipe fittings.

+Redvale, Colo.—The Lone Cone Ditch and Reservoir Co. has awarded the contract to LOFTUS & SKIDMORE of Dolores, Colo., for constructing a reservoir. Estimated cost, $13,000.

Portales, New Mex.—The Portales Valley Irrigated Lands & Developing Co., has been organized with a capital of $25,000. The incorporators are: Robert D. Yoakum, Asher B. Seay and Basil J. Reagan.

Payette, Idaho.—The City Council will soon ask bids for water-works extension, including 15,000 ft. of 4 and 6-in. machine-banded, wooden pipe, hydrants, gates, etc. W. C. Sturdevant is City Engr.

Santaquin, Utah.—We are officially advised that the Town Board of Santaquin is making arrangements with the State Land Board of Utah for the installation of a water system. Jesse Holladay is Town Clk.

+Carson City, Nev.—The Secretary of the Interior, Washington, D. C., has awarded the contract to the BUCYRUS CO., of South Milwaukee, Wis., for furnishing a drag line excavator for use in the construction of Lahontan dam, Truckee-Carson irrigation project, Nev. The contract price is $9,875.

***Yuma, Ariz.**—Bids will be received by the U. S. Reclamation Service, Yuma, until 2 p. m., Oct. 12, for the construction of about nine miles of canal located in the Yuma Indian reservation, in California. The work is within five to 15 miles of Yuma. The excavation and placing of about 1,300,000 cu. yds. of material is involved. For particulars address the U. S. Reclamation Service, Yuma, or Washington, D. C., F. H. Newell is Dir.

Seattle, Wash.—Bonds for $1,000,000 for the Cedar River watershed protection have been voted.

Ellenburg, Wash.—The citizens have voted to issue $100,000 of bonds for the construction of water-works system.

Colusa, Cal.—Poirier Bros., Colusa, are preparing plans for installing a complete pumping and irrigation system.

Exeter, Cal.—The citizens have voted to issue bonds to the amount of $42,500 for water system extensions.

Los Angeles, Cal.—The Board of Public Service, will receive bids until 2 p. m., Oct. 3, for furnishing water meters to the Department of Public Service. James P. Vromon, is Secy.

Los Angeles, Cal.—Bids will be received until 2 p. m., Sept. 26, by the Board of Public Service for furnishing about 620 tons of Standard bell and spigot c.-i. pipe; also for furnishing 4,000 single-nozzle fire hydrants with 2½-in. openings. J. P. Kroman is Secy.

Manteca, Cal.—Bids will be received by the South San Joaquin Irrigation District, until Oct. 3, for constructing Sections 2-a, 2-b, 3, 4 and 5 of the Joint-supply Canal. Estimated cost is $700,000. Duryea, Waehl & Gilman, Humboldt Bank Bldg., San Francisco, are Engrs.

Monterey, Cal.—Bids will be received by the Quartermaster, U. S. A., Presidio of Monterey, Monterey, until 11 a. m., Oct. 6, for constructing a 6-in. force main.

Oakley, Cal.—Russel L. Dunn, of San Francisco, Cal., it is reported has completed plans for a system to irrigate 35,000 acres of land in Contra Costa County. Water will be taken from the San Joaquin River near Oakley. The plans provide for the pumping of the water to high ground outside of Oakley, where a storage reservoir is to be constructed. From this point the water will be run over 35,000 acres of land, through laterals which will cover more than 25 miles. The district will extend from the town of Bay Point, on the bay shore, to the San Joaquin County line, and to the slopes of Mt. Diablo. The C. A. Hooper Co., owner of the rancho Los Mendanos, is interested.

Porterville, Cal.—The U. S. Pipe Co., of San Francisco Cal. has submitted the lowest bid at $24,495 for furnishing pipe and the Western Engineering Co. of Oakland, Cal., the lowest bid at $10,723, for laying the same, for the proposed water system. George A. Rogers of Los Angeles, Cal., bid $41,474, for the entire work.

Redlands, Cal.—The City Engineer has completed plans for the new high-pressure water system for fire protection in the business district and bids will be received early in Oct. for the work, which will require furnishing and laying four miles of 6 to 12-in. riveted steel and c.-i. pipe with valves and hydrants. Estimated cost, $52,000.

+San Francisco, Cal.—Willes Polk & Co., Archs., Merchants' Exchange Bldg., have awarded a contract to BLUXOME & CO., Monadnock Bldg., San Francisco, for the construction of a central pumping station on Sloat Boulevard for the Spring Valley Water Co., at $13,067. The construction will be of concrete.

Sierra Madre, Cal.—The City Council has passed resolutions providing for the construction of a water-works and distributing system. Bonds for $96,000 have been voted.

Tracy, Cal.—The city will receive bids until 8 p. m., Sept. 28, for the construction of a water system. H. R. Youngblood is City Clk. Sloan & Robson are Engrs., Nevada Bank Bldg., San Francisco, Cal.

***Windsor, Ont.**—Bids for a 60-in. steel intake pipe approximately 500 ft. long of ½ in. riveted steel plates. together with a concrete screen well approximately 18 ft. × 30 ft., with appurtenances, addressed to W. A. Hanrahan, Secy. Water Comrs., will be received at the office of the Water Commissioners, until noon, Oct. 12. Copies of plans and specifications are on file at the Water Office, Windsor, and also at the office of Smith, Hinchman & Grylls, Detroit, Mich. This is a readvertisement of the work bids for which were to have been opened on Sept. 12. Noted on Aug. 24.

High River, Alta.—The citizens voted on Sept. 5, to issue $125,000 of bonds for the construction of water-works and sewers. Chipman & Power, of Toronto, Ont., are Engrs.

Saskatoon, Sask.—The citizens have voted to issue $863,000 of bonds for new electric light and power plant, intercepting sewer and disposal plant, a water filtration plant and other purposes, including improvement of Saskatchewan Drive.

Prince Rupert, B. C.—The citizens voted on Sept. 6 to issue $550,000 of bonds for water-works and an electric light plant.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

+Boston, Mass.—The contract for building catch basins in South Roxbury and Dorcester has been awarded to J. H. FERGUSON CO., at $4,551. Other bids were: Geo. J. Regan, $5,098; Antony Cefalo, $5,285; John McCourt & Co., $6,493; D. E. Lynch, $6,792. Louis K. Rourke is Comr. of Pub. Wks.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply until 11 a. m., Sept. 22, for sewer construction, as follows: 130 cu. yds. excavation, 110 lin. ft. 12-in. pipe, 140 lin. ft. 8-in. pipe, 220 lin. ft. 6-in pipe, one catch basin and two manholes. James M. Riley is Secy.

Amsterdam, N. Y.—Bids will be received by the Board of Sewer Commissioners, until Sept. 27, for sewer construction in various streets. A. T. Young is Secy.

Dunkirk, N. Y.—The Common Council has declared its intention to construct a sewer in Central Ave., from the present terminus, about 700 ft. south of the Nickle Plate tracks, to the southerly city line.

Lansingburgh (Troy post-office), **N. Y.**—Bids will be received by the Board of Contract and Supply until Sept. 22 for constructing a sewer in First St., from Fifth to Seventh Ave.

+New York, N. Y.—A contract has been awarded by Lawrence Gresser, Pres. Boro. of Queens, as follows: A sewer in Rockaway Road, Jamaica, from Lefferts Ave. to Panama St.; in Panama St., from Rockaway Road to Stanley Ave.; in Stanley Ave., from Panama St. to Shenandoah St., and in Shenandoah St., from Stanley Ave. to the Jamaica sewage disposal plant, to WILLIAM KELLY at $66,740.

Rochester, N. Y.—The City is considering the construction of an outlet sewer in lower West Ave., to cost $30,000. Edwin A. Fisher is City Engr.

Schenectady, N. Y.—The State Board of Health has granted permission to the city to construct a sewer in Van Vraken Ave., with several branches to take care of the sewage in the northern part of the city and emptying into the Mohawk River.

Tonawanda, N. Y.—Bids will be received by Moss W. Simson, City Clk., until Sept. 25, for constructing an 18-in. tile sewer on Wheeler St., and a 10-in. tile sewer on James St.

***Rahway, N. J.**—Bids will be received by the Common Council until 8 p. m., Sept. 26. for constructing 3,534 lin. ft. of 8-in. 944 lin. ft. of 10-in., and 388 lin. ft of 12-in vitrified pipe sewers. Franklin Marsh is City Engr.

Jersey City, N. J.—Bids will be received by the Board of Street and Water Commissioners until 10 a. m., Sept. 27, for constructing a 15-in. vitrified pipe sewer in Everett St. E. B. See is Clk.

Dravosburg, Pa.—Press reports are to the effect that a new sewer system will be installed immediately by the Borough of Dravosburg.

+Baltimore, Md.—Press reports state that a contract for constructing lateral sewers in northeast Baltimore has been awarded to B. F. SWEETEN at $145,630. A contract for constructing storm sewers in various sections of the city has been awarded to RYAN & REILLY at $173,229.

Huntington, W. Va.—Bids will be received by the City Commissioners, Huntington, until 1 p. m., Oct. 5, for constructing a 10-in. tile sewer in one alley and 12-in. tile sewers in three alleys. Plans and specifications are on file with A. B. Maupin, City Engr.

Summerville, Ga.—Bids will be received by the Village Council until noon, Sept. 30, for about 1,700 lin. ft. 24-in., 100 lin. ft. 18-in., 860 lin. ft. 15-in., 160 lin. ft. 10-in., 7,000 lin. ft. 8-in. and 550 lin. ft. 6-in. terra cotta pipe sewers; 2,800 lin. ft. 6-in. and 8,000 lin. ft. 4-in. c.-i. water mains; 23 manholes; nine lampholes and 12 fire hydrants. Plans and specifications are on file at village hall and at office of Geo. W. Summers, Engr., Dyer Bldg., Augusta.

Newnan, Ga.—See item under Water Supply—Irrigation.

Jacksonville, Fla.—Bids will be received by the Trustees for the Waterworks and Improvement Bonds of the City of Jacksonville until 3 p. m., Oct. 9, for furnishing all materials and laying about 890 ft. of 14-in. c.-i. sewer pipe, together with 14 14 × 6-in. c.-i. Y branches and building two manholes, in accordance with the provisions of City Ordinance No. L-13. R. N. Ellis is Supt., and W. M. Bostwick, Jr., is Chn. of Trustees.

+Clarksdale, Miss.—Contracts for extending sewers and water-works into the suburbs have been awarded as follows: Air compressor and water-works pump, ALLEN ENGINEERING CO., Memphis, Tenn.; water pump, CLARKSDALE MANUFACTURING CO., Clarksdale; 53,000 lin. ft. of iron pipe, U. S. CAST IRON PIPE CO., Birmingham, Ala.; 100 valves and hydrants, COLUMBIA IRON WORKS, Chattanooga, Tenn.; laying sewer and water pipe, MISCHLER CO., Chattanooga. Total cost, $60,000.

+*New Orleans, La.—We are officially advised that bids for constructing lined and covered canals and pipe lines of the Napoleon Ave. system, Contract 36-D, were received on Sept. 11 by the Sewerage and Water Board as follows: Standard Concrete Construction Co., Chicago, Ill., $1,083,976; A. L. PATTERSON, New Orleans, $977,006 (awarded contract); Dameron, White, Smith Co., New Orleans, $1,269,286; Inland Waterways Dredging & Equipment Co., New York, $1,118,373; Jefferson Construction Co., New Orleans, $1,201,735; Bancroft & Ross, New Orleans, $1,152,645. George G. Earl is Gen. Supt. Noted July 13.

Louisville, Ky.—Bids will be received by the Board of Public Works until 2 p. m., Sept. 26, for 1,450 ft. of 54-in. concrete sewer and 480 ft. of 30-in. vitrified pipe sewer. Estimated cost, $27,000. D. R. Lyman is City Engr., and R. W. Burks, First Asst. Engr.

Lexington, Ky.—The General Council is considering the construction of a sewage disposal plant to cost $150,000. P. P. O'Neill is City Engr.

Hilliards, Ohio.—Bids will be received by H. S. Romick, Vil. Clk., until noon, Oct. 3, for constructing a system of sewers.

Toledo, Ohio.—Bids will be received by the Director of Public Service until noon, Sept. 27, for constructing main sewer No. 1119, in District No. 43, in accordance with plans and specifications on file with the Director and with the Chief Engineer. S. M. Albrecht is Act. Secy.

Columbus, Ohio.—Bids will be received by H. S. Holton, Dir. of Pub. Ser., until Sept. 27, for furnishing the necessary labor and materials for a trunk sewer in Milo, a recently annexed portion of Columbus. The sewers to be built are: 3,839 ft. of 60-in., 327 ft. of 54-in., 592 ft. of 36-in., 783 ft. of 24-in., 370 ft. of 18-in., 140 ft. of 15-in. sewer; 29 manholes; 84 6-in. inlets; 336 ft. of 6-in. penstocks, and considerable repaving.

Hartford (Croton post-office), **Ohio.**—See item under Streets and Roads.

Kenosha, Wis.—The Common Council has awarded a contract for the construction of the Ashland Ave. sewer to MICHAEL STEINBACH, Kenosha.

+Belle Plaine, Iowa.—We are officially advised that bids for constructing sanitary sewers and extending the water-works were received on Sept. 11, as follows, (a) lateral sewers; (b) outlet sewers; (c) water-works extension: GEO. A. MALLORY & CO., Kewanee, Ill., (a) $24,082, (b) $5,449 (awarded contracts a and b); HOOSIER CONSTRUCTION CO., Great Bend, Kan., (a) $32,795, (b) $7,003, (c) $17,173 (awarded contract c); Lytle Construction Co., Sioux City, Iowa, (a) $27,765, (b) $7,514, (c) $18,019; Dearborn & Jackson, Cedar Rapids, Iowa, (a) $29,981, (b) $7,262; Dunnegan & Briggs, Shenandoah, Iowa, (a) $30,292, (b) $7,540, (c) $19,226; Fraser & Danforth, St. Paul, Minn., (a) $32,948, (b) $7,826, (c) $21,763; Geo. M. King Construction Co., Des Moines, Iowa, (a) $33,752, (b) $8,917; J. W. Turner Improvement Co., Des Moines, Iowa (a) $33,752, (b) $8,997 (c) $$20,334; M. A. Camery, Harlan, Iowa, (a) $34,291, (b) $6,742, (c) $18,256 Lana Construction Co., Harlan, Iowa, (a) $33,233, (b) $6,599; Independent Construction Co., Davenport, Iowa, (a) $35,023, (b) $7,828; Katz Construction

Co., Omaha, Neb., (a) $35,273, (b) $7,-260, (c) $18,954; Thill-Manning-Whalen Co., La Crosse, Wis., (a) $36,724, (b) $8,-741 (c) $23,840; W. D. Yeager Co., Cedar Rapids, Iowa, (a) $37,064, (b) $7,855; Hawkeye Construction Co., Webster City, Iowa, (a) $37,671, (b) $7,745; Hoar & Parkinson, Iowa City, Iowa, (a) $38,-923, (b) $8,341; Mulholland, Kuehn & Co., Kaukauna, Wis., (a) $39,397, (b) $8,349; Guy E. Smith, Indianola, Iowa, (a) $43,130, (b) $7,458, (c) $18,560; Wm. Fitch, Omaha, Neb., (a) $41,787, (b) $6,961; Blackhawk Construction Co., Waterloo, Iowa, (a) $42,404, (b) $6,068, (c) $19,120; John Brogan, Green Bay, Wis., (a) $44,833, (b) $7,466, (c) $21,-502; E. L. Dimick, Laurel, Neb., (b) $6,636, (c) $18,361; Thos. Carey & Son, Clinton, Iowa, (b) $7,001, (c) $18,663; Rink & Schnell, Clinton, Iowa, (b) $8,-263; A. Korneman & Co., Muscatine, Iowa, (b) $10,259, (c) $25,204; Keerl-Stevens Co., Mason City, Iowa, (c) $17,-810; T. C. Brooks & Sons Co., Jackson, Mich., (c) $17,851; Cook Construction Co., Des Moines, Iowa (c) $18,383; Des Moines Bridge & Iron Co., Des Moines, Iowa, (c) $18,397; M. H. Meredith, West Liberty, Iowa, (c) $18,645; Wm. Tuney, Joliet, Ill., (c) $18,995; Greene Bros., Albert Lea, Minn. (c) $20,720. The Iowa Engineering Co., Clinton, Iowa, is Consult. Engr. Noted Aug. 31.

+Cedar Rapids, Iowa.—The contract for constructing a concrete storm sewer on N. Ave., from the river to Eleventh St., has been awarded to DEARBORN & JACKSON at $19,451.

Fairfield, Iowa.—Bids will be received by W L. Long, City Clk., until 1.30 p. m., Sept. 25, for constructing a sanitary sewer system, as follows: Two sewage disposal plants, including settling tanks and filters; 482 ft. of 6-in. sewer; 63,032 ft. of 8-in. sewer; 7,745 ft. of 10-in. sewer; 11,520 ft. of 12-in. sewer; 162 manholes; 24 drop manholes; 14 lampholes; 61 flush tanks; two combined manholes and flush tanks. Plans and specifications are on file with the City Clerk and with Hall & Adams, Engrs., Centerville, Iowa. J. P. Starr is Mayor.

Dubuque, Iowa. — Bids will be received by Otto P. Geiger, City Recdr., until 8 p. m., Sept. 21, for constructing an 8-in. pipe sanitary sewer in the alley between Rhomberg and Garfield Aves.

Fargo, N. Dak.—Bids will be received by E. R. Orchard, City Audr., until 5 p. m., Oct. 2, for constructing a 12-in. lateral sewer in Fifth St.

+Prescott, Ark.—The contract for furnishing the sewer pipe required for the construction of sewers for the city of Prescott has been awarded to the TEXARKANA POST PIPE CO., Texarkana, at $7,000.

***Dallas, Tex.**—Bids will be received by J. B. Winslett, City Secy., until 3 p. m., Oct. 6, for laying from 15-in. vitrified pipe to 80-in. concrete pipe storm sewers in various streets.

+Corpus Christi, Tex.—The City has awarded a contract to TRUEHART & JACKSON for the completion of the sanitary sewer system. F. H. Lancashire, Dallas, is Engr.

+Brownsville, Tex.—The City Council has let the contract for the construction of a system of storm sewers to N. E. RENDALL, Brownsville.

Nogales, Ariz.—The citizens have voted $50,000 for a sewer system.

Payette, Idaho.—Bids will be received by the Sewer Committee at the office of M. O. Luther, City Clk., until noon, Oct. 20, for laying 16,700 lin. ft. of 6 to 15-in. vitrified sewer pipe, with manholes, lampholes, flush tanks, etc., in Sewer District No. 2. Plans and specifications may be had by addressing the City Clerk or C. P. Lattig, Sewer Engineer, Payette.

San Bernardino, Cal.—Karl F. Tuttle, City Engr., has completed plans and specifications for the new outfall sewer to be built in the section of San Bernardino from First St. to Mt. Vernon and from Kingman Ave. north. The system will be six miles in extent and will be comprised of 8, 12, 16 and 18-in. pipe. Estimated cost, $20,000.

San Francisco, Cal.—A resolution has been passed authorizing the construction by the Public Works Department of section E of the North Point main sewer, at an estimated cost of $140,000.

Tracy, Cal.—Bids will be received by H. R. Youngblood, City Clk., until 8 p. m., Sept. 28, for constructing about six miles of vitrified pipe sewer, with manholes, flush tanks, a liquefying tank and disposal works.

Venice, Cal.—Bids will be received by the City Council until 5 p. m., Sept. 25, for constructing vitrified pipe sewers along Brooks Ave. C. S. Thatcher is City Clk.

GARBAGE DISPOSAL.

(*+Denotes a contract awarded.*)

Newport, R. I.—Bids will be received until 11 a. m., Sept. 23, by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for a garbage crematory at the Naval Torpedo Station here.

New York, N. Y.—The following bids were received on Sept. 7 by William H. Edwards, Comr. St. Clearing, for the removal of snow and ice during the winter season of 1911-1912: (a) Manhattan, Sections 1, 2 and 3; (b) Brooklyn; (c) The Bronx: W. J. Fitzgerald (a), Section 3, 50 cts.; Canavan Bros. (a), 68 cts., 69 cts., 59 cts.; S. Di Marco, (a) 50 cts., 50 cts., 49 cts., (c) 47 cts.; William Brady (a) 60 cts., 60 cts., 60 cts.; James Marrone (b), 42 cts.; J. H. Holmes (b) 50½ cts., (c) 51 cts.; Norton & Gorman Co. (b) 47½ cts.; Newman & Carey Co., (b) 37.99 cts.; Donlon Contracting Co. (b) 47 cts.; Soraci Contracting Co. (c) 42½ cts.; J. B. Malatesta (c), 53 cts.; Walton Construction Co. (c) 42 cts.; W. H. Masterson (c) 39 cts.; W. F. McElroy (c) 45 cts.; Thompson Bros. (c) 58 cts.

Trenton, N. J.—The City Commission is considering the installation of a new garbage crematory in South Trenton.

Utica, N. Y.—The Board of Contract and Supply has awarded to HARRY W. ROBERTS & CO., at $248 per day, the contract for sweeping the streets from Oct. 1, 1911, to Dec. 31, 1915. John R. Baxter, the only other bidder, asked $287 per day. Noted Aug. 10.

Hoboken, N. J.—Bids will be received by the Mayor and the Council until 4 p. m., Sept. 27, for the removal of ashes, garbage, rubbish, street sweepings, etc., for the term of one, three and five years. J. H. Londrigan, is City Clk.

Pasadena, Cal.—The Mayor is considering the installation of an electrical incinerator at the municipal sewer farm.

San Antonio, Tex.—The City Board of Health has taken steps toward the installation of a garbage incinerator here, to cost about $25,000.

Victoria, B. C.—Bids will be received until 4 p. m., Sept. 25, by the city, for building a new incinerator at the foot of Herald St. William Northcott is Purchasing Agt.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

Warner, N. H.—Bids will be received by H. C. Hill, State Engr., Concord, N. H., until 1 p. m., Sept. 22, for constructing 2,500 lin. ft. of gravel road in the town of Warner.

Boston, Mass.—Bids will be received until Sept. 25 by the Public Works Department for construction of a tar macadam roadway in Coleman St., Dorchester, and for asphalt pavement in Kent St., Roxbury. Louis K. Rourke is Comr. of Pub. Wks.

+A contract has been awarded by the Massachusetts Highway Commission for the construction of 3,600 ft. of macadam road in Webster to R. F. HUDSON, Wilmington, at $5,285. The other bids were: John S. Mathewson, Webster, $5,403; F. J. Quinn, Ashton, R. I., $5,653; F. J. Mague, West Newton, $5,890; N. E. Construction Co., Worcester, $5,878.

+The contract for constructing a tar macadam roadway in Hiawatha Road has been awarded to JAMES DOHERTY at $6,070. Other bids were: William J. Rafferty Co., $6,115; D. E. Lynch, $7,125. Louis K. Rourke is Comr. of Pub. Wks.

+Boston, Mass.—The contract for paving Tremont St., between Hammond and Northampton Sts., was awarded on Sept. 11, to McGUIRE & KIERNAN, at $23,847. Other bids were: John F. O'Connell, $24,308; F. L. & A. D. Gore Corpn., $24,591; Simpson Bros. Corpn., $24,621; Coleman Bros., $25,129; Jas. Doherty, $25,723. Louis K. Rourke is Comr. of Pub. Wks.

+East Hartford, Conn.—The following bids were submitted for macadaminzing Orchard and Larrabee Sts.: Arthur H. Olmstead, Hartford, Conn., at $1.44 per lin. ft. for each street; A. W. Bryne Co., Hartford, Conn., Larrabee St., $1.30 per lin. ft., Orchard St., $1.50 per lin. ft. THOMAS KEARNEY, Meriden, Conn., $1.14 per lin ft. for each street (awarded contract).

Greenwich, Conn. — Bids will be received by John H. Banks, Boro. Clk., until Sept. 25, for paving, curbing and draining Lewis St., from Greenwich Ave. to Mason St. Bids wil be received for vitrified brick, creosoted wood blocks and bitulithic wearing surface on a concrete foundation.

+Stamford, Conn.—The contract for paving Elm St. has been awarded to WILLIAM H. ARTHUR, Stamford, at the following item bids: $1.24 per sq. yd. for paving, 10 cts., 22½ cts., 38 cts., and 60 cts., per sq. yd., per quarter mile, first quarter, second quarter, third quarter and mile. for the hauling. The other bids were: White Plains, $1.69, 9 cts., 14 cts., 18 cts., and 23 cts.; Gifford Construction Co., Jamaica, N. J., $1.55, and 12 cts. per quarter for hauling; Frank Palmer, Stamford, $1.35, 9 cts. per quarter for hauling; Leo Slater, Port Chester, $1.70, 5 cts., 9 cts., 11 cts., 15 cts. Chas. Mottola, Mt. Vernon, $1.38, 9 cts., 17 cts.. 26 cts., 34 cts.

Buffalo, N. Y.—The City Council has ordered streets paved as follows: Rohe St., 26 ft. wide, between Bailey Ave. and Brinkman St.; Oak St., 28 and 30 ft. wide, with asphalt, between Genesee and Goodell St.

Corinth, N. Y.—Bids for paving 4½ miles of street in Corinth have been received as follows: Shaughnessey Construction Co., Albany, $34,361; J. R. Dowler, Ballston Spa, $40,735.

New York, N. Y.—Bids will be received by George McAneny, Pres. Boro. Manhattan, until 2 p. m., Sept. 26, for improving various streets.

+Contracts for road improvement have been awarded by Lawrence Gresser, Pres. Boro. Queens, as follows: Central Ave., from the Merrick Road to the city line, in the Fourth Ward: CONTINENTAL PUBLIC WORKS CO., at $28,497; the Hempstead and Jamaica Turnpike, from the Merrick Road to the city line, Fourth Ward, UVALDE CONTRACTING CO., at $43,087; the Shell Road, from Thomson to Jackson Ave., THOMAS M. HART, at $30,728.

Troy, N. Y.—Bids will be received by the Board of Contract and Supply until Sept. 26, for widening Oakwood Ave. Estimated cost, $10,000.

Brown Mills, N. J.—Bids will be received by the Township Committee of Pemberton Township, until 2 p. m., Sept. 25, for building 5.6 miles of gravel road. Walter E. Woolston is Chn.

East Orange, N. J.—Bids for paving Main St. have been received by the City Council as follows: Medina block, Jersey Paving Co., $3.62 per sq. yd.; $98,880 total; sheet asphalt, Warner-Quinlan Asphalt Co., $2.03, total $60,720; bitulithic, Standard Bitulithic Co., $2.42; total, $70,080; wood block, Van Keuren & Son, $3.10, total, $86,400; bitulithic, J. F. Shanley & Co., $2.31, total $67,440; wood block, Jersey Paving Corporation, $3.28, total, $90,720; United States Wood-Preserving Co., $3.60, total, $98,400; brick, Jersey Paving Co., $2.24, or $65,-760; granite block, Van Keuren & Son, $3.05, or $85,200; asphalt block, Barber Asphalt Co., $3.03, total, $84,720.

Toms River, N. J.—Bids will be received by the Board of Chosen Freeholders of Ocean County until noon, Sept. 26, for building 5½ miles of gravel road. Plans and specifications may be seen at the office of the State Road Commissioner, Trenton, N. J., at the office of Charles A. Allen, Cassville, N. J., or at the office of I. H. Cramer, Engr., Cedar Run, N. J.

Pittsburgh, Pa. — Bids will be received by R. J. Cunningham, County Controller, until 10 a. m., Oct. 4, for improving Homeville and Squaw Run Roads, about four miles long. Plans and specifications are on file with the County Road Engineer, Pittsburgh.

Sharon, Pa.—Bids will be received by Oscar J. Denny, Boro. Secy., until 5 p. m., Oct. 3, for paving about 1,300 sq. yds., on Boyce St. Griff W. Nichols is Boro. Engr.

Wilkes-Barre, Pa.—The Commissioners of Luzerne County have applied to the court for permission to built a macadam road between Wilkes-Barre and Hazleton by way of White Haven. The road will be 20½ miles long, and the estimated cost is $199,750.

Frostburg, Md.—Bids will be received by John J. Price, Charles E. Emrick and William A. Glotfelty, Street Com., until 2 p. m., Sept. 28, for grading and paving about 2,000 ft. of streets. William Harvey is City Engr.

Grafton, W. Va.—Bids will be received by A. F. McWilliams, Mayor, until noon, Sept. 29, for paving portions of West Main, Christiana and Bailey Sts. J. Clyde Lewis is City Engr.

Huntington, W. Va.—Bids will be received by the City Commissioners, Huntington, until 1 p. m., Oct. 5, for paving Buffington, 31st and Second Sts., and three alleys, with vitrified brick, according to plans and specifications on file with A. B. Maupin, City Engr.

Wheeling, W. Va.—Bids will be received by the Board of County Commissioners until 10 a. m. Sept. 25, for paving various roads throughout the county. A. S. Bell is County Engr.

***Marion, S. C.**—About 100 miles of sandstone highway will be constructed. For particulars address the Road and Highway Commission, Marion.

Cedartown, Ga.—Bids will be received by the City Council, Cedartown, until Oct. 3, for laying about 5,000 ft. of cement curb and gutter, according to specifications on file with H. N. Van Devander, City Engr. M. D. Russell is Mayor.

Anniston, Ala.—Bids will be received by the County Commissioners until noon, Oct. 4, for grading, draining and surfacing with chert or macadam approximately three miles of State aid road, and for grading, draining and macadamizing six miles of county road, according to plans and specifications on file at office of State Highway Department, Montgomery, Ala., and with R. H. Cobbs, Res. Engr., Anniston. W. S. Keller is State Highway Engr.

Oneonta, Ala.—Bids will be received by the Commissioners of Blount County until noon, Oct. 3, for grading, draining and surfacing one mile of State aid road, according to plans and specifications on file at office of State Highway Department, Montgomery, Ala., and with Probate Judge at Oneonta. W. S. Keller is State Highway Engr.

+Johnson City, Tenn.—Contracts have been awarded by the City Council, as follows: 23,000 sq. yds. of pavement on Watauga Ave. and Roane St., to the CLEVELAND TRINIDAD ASPHALT CO., Cleveland, at $53,000; for laying gutters in Watauga Ave. and Roane St., to GEO. R. BROWN, Johnson City, at $6,000.

Jackson, Miss.—The City Council has passed an ordinance instructing the City Engineer to prepare plans and specifications for paving West Capitol St., from Lemon to Magnolia St. The ordinance also instructs the Street Commissioner to advertise for bids. It is estimated that the work will cost between $50,000 and $60,000.

+Paducah, Ky.—We are officially advised that bids for constructing curbs and sidewalks have been received as follows: O'HAGAN & LAKE, Aurora, Ill., $9,270 (awarded contract); G. W. Kallerjohn, Paducah, $9,383; Yaveey & Johnson, Paducah, $10,115; Henning & Vineyard, Evansville, Ind., $9,731. L. A. Washington is City Engr.

Ashland, Ohio.—Bids were opened Sept. 8 by the Commissioners of Ashland County for the improvement of 1.6 miles of roadway in Sullivan Township, as follows: Carroll & Gruber, Caledonia, $6,300; D. A. Phillips, Ashland, $6,270; Buckeye Engineering Co., Norwalk, $6,305; France Co., Toledo, $6,320.

Columbus, Ohio.—Bids will be received by H. S. Holton, Dir. Pub. Ser., until Sept. 27, for grading, draining, curbing, paving with brick and laying water pipes on various streets.

Cleveland, Ohio. — Bids will be received by A. B. Lea, Dir. Pub. Ser., until noon, Sept. 28, for grading, draining, curbing, paving, with vitrified brick and otherwise improving portions of various streets. Ir[illegible] Hoffman is Secy.

Grove City, Ohio.—Bids will be received by Jules Hugenoit, Clerk of the Corporation, until Oct. 2, for the construction of cement sidewalk on the east side of Broad St.

Hartford (Croton Postoffice), **Ohio.**—Bids will be received by G. [illegible] Grandstaff, Vil. Clk., until Sept. 2[illegible], for 4,000 sq. yds. bituminous concrete pavement, 8,600 sq. yds. macadam pavement with oil binder, and 1,400 lin. ft. of 10 and 12-in. sanitary sewer. H. L. Maddocks, Trust Bldg., Newark, Ohio, is Consult. Engr.

+Marietta, Ohio. — Bids for paving the pike east of Duck Creek Bridge have been received as follows: CISLER & MORSE, brick, $13,875 for 1.21 miles (awarded contract); A. E. Hunt and S. G. Martin, brick $13,975., cement $13,300 1.57 miles; McNeal & Beckwith, brick, $14,070, 1.21 miles.

+Mansfield, Ohio.—Bids have been received by the County Commissioners for grading and macadamizing 3.37 miles of road in Madison and Springfield Townships, as follows: J. W. SCOTT, Marion, $23,990 (awarded contract); Carroll & Gruber, Caledonia, $24,444.

Warren, Ohio.—Bids will be received by the Commissioners of Trumbull County until Oct. 2, for the construction of a fill in the Van Ness Road.

Middletown, Ohio.—Bids will be received by the Director of Public Service until noon, Oct. 2, for improving Tytus Ave.

Indiana Road Improvements.

Indiana. — Bids will be received as follows for highway improvements in Indiana:

Oct. 3:

Logansport.—By the Commissioners of Cass County, at 10 a. m., for gravel road in Jefferson Township.

Lawrenceburg.—By the Commissioners of Dearborn County for two gravel roads. Wm. S. Fagaly is County Audr.

Rensselaer.—By the Commissioners of Jasper County, for gravel road.

Oct. 4:

Rushville.—By the Commissioners of Rush County, for macadam roads in Noble and Richland Townships.

Bloomington.—By the Commissioners of Monroe County, for two stone roads. Horace Blakely is County Audr.

Oct. 9:

Williamsport.—By the Commissioners of Warren County, for a gravel road. David H. Moffat is Audr.

Saginaw, Mich. — A survey is being made for a boulevard ten miles long connecting Saginaw and Bay City. R. W. Roberts is City Engr.

Chicago, Ill. — Bids will be received by L. E. McGann, Comr. Pub. Wks., until 11 a. m., Sept. 21, for delivering to the Street Department 500,000 paving bricks. The brick, to conform to specifications, must be re-pressed vitrified pressed brick, 8 × 4 × 2½ in., free from lime, fire cracks and checks and must pass the official test as shown in specifications.

***+Rockford, Ill.**—We are officially advised that the contract for paving West State St., including about 17,785 sq. yds. brick pavement, 6,300 cu. yds. excavation, and 10,400 lin. ft. curb and gutter, was awarded on Sept. 12 to A. E. RUTLEDGE, at $38,125. The other bids were: Alex. Clubb, $37,826; Wuterstrom & Ekberg, $39,916; General Engineering & Construction Co., $40,227. Noted Sept. 7.

Wheaton, Ill.—Bids will be received by the Board of Local Improvements until 8 p. m., Sept. 28, for constructing 23,104 sq. yds. of bituminous macadam pavement with combined concrete curb and gutter. Estimated cost, $40,830. Plans and specifications may be seen at the office of the City Clerk, and at the office of Arthur S. Webster, City Engr.

Green Bay, Wis.—Bids will be received by the City Clerk until 2 p. m., Sept. 25, for improving portions of Main St. and North Broadway.

+Milwaukee, Wis.—Contracts for paving have been awarded as follows: To the BADGER CONSTRUCTION CO., Vliet St., from 11th to 20th St., at $1.35 per sq. yd.; 48th St., from Pabst Ave. to Vliet St., at $1.63; to the R. F. CONWAY CO., Vliet St., from 20th to 35th St., at $1.37 per sq. yd.; Hopkins St., from Chambers to 20th St., $1.45; 47th St., from Pabst Ave. to Vliet St., $1.63; Biddle St., from Broadway to Jackson St., $1.45.

Cedar Rapids, Iowa.—Bids will be received by L. J. Storey, City Clk. until Sept. 22, for constructing concrete pavement on 15th St. and Johnson Ave.

Aberdeen, S. Dak.—Bids will be received until Sept. 25 for constructing curbs, sidewalks, etc., in various streets. F. W. Raymond is City Audr.

Armour, S. Dak.—Bids will be received by P. Ernisse, Audr., Douglas County, until 10 a. m., Sept. 25, for grading various roads.

Grand Forks, N. Dak.—Bids will be received by Charles J. Evanston, City Audr., until 4 p. m., Sept. 22, for repaving 20,[illegible] sq. ft. with treated wood block and granitoid concrete block.

St. Louis, Mo.—Bids will be received by the Board of Public Improvements until noon, Sept. 22, for grading, paving and otherwise improving portions of various streets and alleys. Maxine Reber is Pres. and C. A. Moreno, Secy.

Galveston, Tex.—Bids will be received by John M. Murch, County Audr., until 11 a. m., Oct. 1, for paving with vitrified brick about 4,900 sq. yds of causeway.

Tilden, Tex.—Taxpayers of McMullen County have voted $35,000 bonds for road improvements.

Teague, Tex.—Bids will be received until noon, Sept. 28, for constructing a system of streets. J. H. King is Mayor.

Bartlesville, Okla.—Bids will be received by [illegible] V. Delmetter, City Clk., until 11 a. m., Oct. 1, for paving Osage Ave., from Fourth to 13th St.

Elk City, Okla.—We are officially advised that F. H. Lancashire, Dallas, Tex., is preparing plans and specifications for brick paving, to cost about $12,000. R. J. Carlile is City Clk.

✚Phoenix, Ariz.—J. A. TREWBETH, Prescott, Ariz., has been awarded a contract for constructing two sections of the Territorial Highway, a total length of 25 miles, between Phoenix and Prescott.

Spokane, Wash.—Bids for paving North Wall St. have been received as follows: R. S. Blome & Co., granitoid concrete, $94,500; Spokane Bitu-Mass Co., bitu-mass, $62,300; Barber Asphalt Co., asphalt, $68,510; Hassam Co., hassam, $69,980; J. F. Hill, asphalt, $65,926; Spokane Asphalt-Macadam Co., $56,700; Western Asphalt Co., $70,015; Municipal Asphalt Plant, $55,220.

Pasco, Wash.—Bids will be received by the City Council until Sept. 26, for constructing about 10,800 sq. ft. of concrete sidewalks and 1,700 lin. ft. of concrete curb. L H. Koontz is City Clk.

Pomeroy, Wash.—Bids will be received by the County Commissioners until Oct. 2, for constructing Permanent Road No. 1 in Garfield County.

✚Escondido, Cal.—H. G. FENTON, San Diego, Cal., has been awarded a contract at $40,000 for improving one mile of oil macadam road, 70 ft. wide.

Fresno, Cal.—Bids will be received by the County Board of Supervisors, D. M. Barnwell, Clk., until Oct. 2 for paving M St., from Tulane to Ligueroa St.

✚Fresno, Cal.—The CALIFORNIA ROAD AND STREET IMPROVEMENT CO. has been awarded a contract at $15,000 for paving Kern St., between K St. and the Santa Fe R. R. tracks.

✚Los Angeles, Cal.—TYRON & BRAIN, Merchants Trust Bldg., have been awarded a contract for grading and constructing cement curbs and sidewalks in Winsor Square Tract, by R. A. Rowan & Co., the owners. The contract calls for the removal of 145,000 cu. yds. of earth and the construction of 145,000 sq. yds. of cement sidewalks and 38,800 lin. ft. of cement curb. V. J. Rowan, Merchants Trust Bldg., is Engr.

✚Los Angeles, Cal.—The Board of Supervisors of Los Angeles County have awarded a contract to J. J. PRENDERGAST, San Fernando Bldg., for improving portions of the San Fernando Road, about 3 miles in length. Item bids were grading 50 cts. per cu. yd.; Class A concrete, $12 per cu. yd.; Class C concrete, $11.50 per cu. yd.; reinforcing steel, 5 cts. per lb.; pipe railing, $2.50 per lin. ft.; pipe culvert and segmental pipe, $1.50 for 16-in., $2.30 for 24-in., $2.50 for 30-in., $3 for 36-in., per lin. ft.; standard guard fence. 50 cts. per ft.; barbed wire fence, 12 cts. per ft. Total, $43,342.

Los Angeles, Cal.—Bids will be received by the Board of Supervisors of Los Angeles County until 2 p. m., Sept. 25, for improving portions of La Canada Verdugo Road. H. J. Lelande is County Clk.

Madera, Cal.—We are officially advised that plans and specifications have been prepared for paving 26 blocks with asphalt concrete pavement and for construction of the necessary curbs and gutters. Estimated cost, $113,227. W. J. Keays is City Engr.

✚Santa Barbara, Cal.—J. P. DONAHUE, Santa Barbara, has been awarded a contract at $168,410, for constructing 11.14 miles of asphalt concrete road in the Golita Valley.

Montreal, Que.—Press reports state that bids will be received by the Board of Commissioners, City Hall, until Sept. 25, for constructing permanent pavements of granite and artificial paving blocks, asphalt or other suitable paving material. L. M. Senecal is Secy. Comrs.

MANUFACTURING PLANTS.

Augusta, Me.—The Briggs Magneto Co. has been organized for the purpose of manufacturing electrical apparatus and appliances. Capital, $600,000. L. T. Coleman is Pres., M. M. Farrar, Treas., and Charles L. Andrews, Clk.

North Berwick, Me.—The North Berwick Box Co. has been formed with a capital of $40,000. E. W. Marchant, Gloucester, Mass., is Pres., E. B. Varney, Fall River, Mass, Treas., and Leonard D. Meader, N. Berwick, Me., Clerk.

Farmington, Me.—The Composite Hose Co. has been organized for the manufacture of hose and belting, also weaving machinery. Capital, $250,000. Leonard Atwood, Farmington, is Pres., Chas. C. Cole, Boston, Treas., and LeRoy R. Folsom, Norridgewock, Me., Clk.

Portland, Me.—The American Safety Valve Co. has been organized for the purpose of manufacturing and installing apparatus for handling water, oils, liquids and gases. Capital, $1,250,000. P. L. Croteau, Pres., Albert F. Jones, Treas., and Joseph E. Munter is Clk.

Augusta, Me.—Winker Construction Co. has been incorporated at Augusta for the purpose of manufacturing and installing machinery, power equipment, etc., and building powerhouses and factories. The capital stock is $1,000,000. The officers are: E. M. Leavitt, Pres. and Treas.; Lewis A. Burleigh, Clk.

✚East Cambridge, Mass.—J. M. & C. J. BUCKLEY have been awarded the contract to erect a factory building for the American Net & Twine Co., Second and Charles Sts., East Cambridge. The building is to be 70 × 180 ft., two stories high with a basement, of brick and heavy mill construction. Spruce piles and concrete foundation will be used. The contract is for $45,000, and calls for the building to be turned over to its owners complete Feb. 1.

Turners Falls, Mass.—The F. E. Wells & Son Co., Greenfield, Mass., will construct a building at Turners Falls, Mass., for use as a new forging department.

Worcester, Mass.—Bids will soon be asked for the erection of a factory building for Brew & Co. on Arctic St. To be 113 × 74 ft., four stories, of brick, mill construction. Geo. H. Clemence, Walker Bldg., is the Arch.

Brockton, Mass.—An addition to the plant of the Montelle Heel Co. will soon be made. To be 100 × 45 ft. and four stories high.

East Lynn, Mass.—An ice cream factory is to be erected by the Cook Ice Cream Co. near Colum St.

✚Grafton, Mass.—The contract for the cold storage plant for the State Asylum has been awarded to J. P. KEATING, of Westboro. To be of brick, three stories, to cost $30,000 to $40,000. Fuller & Delano, 452 Main St., Worcester, are the Archs.

Hudson, Mass.—A 4-story addition will be erected for the elastic web manufactory of Thomas Taylor & Sons.

Lowell, Mass.—The Avery Chemical Co., of 88 Broad St., Boston, is about to build a plant at Waumesit, to cost $150,000. To be a lactic acid plant, of mill construction, 150 × 50 ft., with three wings, 100 × 50 ft., and two stories high.

Stoughton, Mass.—Work will soon be begun on the large addition to the Belcher Last Co. factory on Pleasant St. To be of concrete construction, four stories high.

✚Worcester, Mass.—The contract for the erection of a factory building for Brewer & Co., on Arctic St., has been awarded to E. J. CROSS & CO., Inc., 82 Foster St. To be 113 × 74 ft., four stories, of brick, and mill construction. George H. Clemence, Walker Bldg., is the Arch.

✚Providence, R. I.—The contract for the second section of the plant at Bradford for the Bradford Dyeing Co., has been awarded to R. A. SHERMAN'S SONS CO., of Westerly. To be 250 × 100 ft., brick. Richard P. Jenks, Banigan Bldg., is the Engr.

Buffalo, N. Y.—The Farrar Iron & Steel Co., Buffalo, N. Y., which has been incorporated to erect structural steel building, has arranged to establish a fabricating plant and install cutting, punching and riveting machinery. Frank N. Farrar is Pres.

Buffalo, N. Y.—The Eureka Seat Co., Buffalo, N. Y., has been incorporated to manufacture automobile seats and parts. The capital stock is $10,000. The incorporators are Joseph H. Morgan, 217 Laurel St.; Maurice J. Cogan and Norbert C. Kropp.

Niagara Falls, N. Y.—The Thorold Silver Smelter Co., Thorold, Ont., will erect a plant at Niagara Falls, N. Y., which will double its output.

Rochester, N. Y.—The E. J. Bosworth Specialty Co., Rochester, N. Y., has been incorporated with a capital stock of $30,000 by E. J. Bosworth, C. W. Ryan and G. P. Culp. The company will manufacture metal and leather specialties.

✚Salamanca, N. Y.—The Fancher Furniture Co., J. Walrath, Pres., has let the contract to E. N. UNSUH, Bradford, Pa., for erection of a 4-story and basement factory building, 60 × 150 ft., on Rochester St.

Solvay, N. Y.—The Solvay Steel Forging Co., recently incorporated, has purchased a site and will erect a forge shop of steel, concrete and wood. Charles M. Hammond, Syracuse, is Pres.

Syracuse, N. Y.—The Syracuse Unit Brick Co., Syracuse, has been incorporated to manufacture bricks by W. P. Hart and J. D. Meehan, of Syracuse. The company is capitalized at $240,000.

Troy, N. Y.—The Trojan Shirt Marker Co., Troy, N. Y., has been incorporated with a capital of $50,000. The incorporators are H. I. Gasson, 64 Maple Ave., Troy; Walter G. Lichtenstein, Rochester, and V. E. Nathan, New York City.

Utica, N. Y.—Construction work will soon be commenced on the 1-story addition, 80 × 200 ft., of steel and reinforced concrete, which is to be made to the boiler shops of the Utica Steam Engine & Boiler Works, Utica, N. Y.

Binghamton, N. Y.—Bids will be received about Oct. 5 for the erection of an ice cream factory for the Binghamton Ice Cream Co., 314 Water St. Plans are being prepared by W. H. Whitlock, Security Mutual Bldg., and will be completed about Sept. 21.

Binghamton, N. Y.—The J. & D. Millar Co. is receiving bids for a 1-story and basement silk mill 65 × 236 ft., mill construction, concrete floors, which it will erect at State and St. Louis St.

Buffalo, N. Y.—The BUFFALO EXPANDED METAL CO., D. S. Morgan Bldg., has been awarded general contract for erection of a factory building 150 × 175 ft., three stories and basement, to be erected on Elm St., north of Broadway, by the Wheat Ice Cream Co., to cost $120,000.

The Niagara Machine & Tool Co. will build a 4-story brick and steel addition to its plant at Northland Ave. and the New York Central R. R. Reinforced-concrete. Cost, $30,000.

The U. S. Hame Co. will build a large 1½-story brick warehouse at its plant, Tonawanda St. and the New York Central R. R.

✚Gloversville, N. Y.—Plans have been completed for the erection of a 2-story, 23 × 50 ft. ice house and warehouse, for S. S. Gross & Son, 39 Church St. Contractor, A. E. BRACE, 39 Hamilton St.

North Tonawanda, N. Y.—The King Construction Co. is having plans prepared for a manufacturing plant which it will erect on a site just purchased.

New York, N. Y.—Bids will be received about Sept. 23 by Henry J. B. Clarke and Robert W. M. Clarke, Engrs. and Archs., 45 East 42d St., for the erection of a factory and loft building, 100 × 90 ft., seven stories, to cost $125,000, for Charles Hofferberth, 532 West 22d St.

Plans are being prepared by Alfred H. Taylor, Arch., 138 West 65th St., for a factory building for William J. Carlin, 234 West 78th St. The building will be 8-story, 70 × 90 ft., and cost $150,000.

Lockport, N. Y.—The Niagara Textile Co. will build a large addition to its plant on South Transit St.

Rochester, N. Y.—John W. Vickery, Sibley Bldg., has completed plans for a 4-story and basement factory, 60 × 109 ft., concrete and brick, to be erected at Saratoga Ave. and Brown Sts., by the Rochester Stamping Co.

Eddystone, Pa.—The Baldwin Locomotive Works will erect an addition at Eddystone. The main improvement will be the erection of a larger addition to the erection shop. The annex will be 500 ft. in length and will front on the Chester Pike.

Jeannette, Pa.—Plans have been prepared by T. H. Hazlett for the erection of a building for the American Fabric Rubber Co., to be located along the Fort Pitt switch.

✚Philadelphia, Pa.—The contract for the erection of a beer storage building has been awarded to A. RAYMOND ROFF, 1535 Thompson St. C. Schmidt & Sons Brewing Co., Second and Edwards Sts., are the owners. The cost is $25,000.

Philadelphia, Pa.—Plans are being prepared by Dodge, Day & Zimmerman, 608 Chestnut St., for the erection of a 3-story brick and concrete, 200 × 215-ft. factory. The Hess Bright Manufacturing Co., 21st and Fairmount Ave., is the owner.

Philadelphia, Pa.—The J. B. Stetson Co. will erect a factory and warehouse at Fourth and Berks Sts. Brick, fireproof, eight stories, 50 × 200 ft. Electric lighting, slag roof, steam heating. Plans in progress.

Pittsburgh, Pa.—Wollman-Zucherman Co., New York, clothing manufacturers, will erect at 1823 Fifth Ave., a 4-story factory and warehouse, costing $30,000.

Roulette, Pa.—The Gray Chemical Co. will erect a 1-story factory, 60 × 106 ft., in Roulette. Plans were prepared by H. S. Salisbury, Arch., Union St.

Aiken, S. C.—The Farmer's Storage Co. has increased its capital stock from $10,000 to $100,000. The company has changed the name to the Farmers' Storage & Fertilizer Co.

Wetumpka, Ala.—The Coosa River Fertilizer Co. has been recently incorporated with L. C. Smith as Pres. and C. G. McMorris Secy. and Treas. The capital stock is $25,000.

✚Chattanooga, Tenn.—The Davis Hosiery Mills have awarded the contract to CHAMBERS & SON, of this city, for the erection of a brick addition to the plant, and will install dyeing and drying equipment. Plans for the structure were prepared by Huntington & Sears, the building to be two stories high, 64 × 224 ft. The Davis Hosiery Mills manufacture men's and boys' cotton hosiery and operate 360 knitting machines and accompanying equipment. The proposed improvements will cost about $40,000.

Chattanooga, Tenn.—It is reported that L. S. Colyard will organize a company to erect a steel plant near Chattanooga. The plant will have a daily capacity of 1,000 tons.

Lexington, Ky.—Plans are under consideration by W. J. Loughbridge, Lexington, Ky., for the erection of an ice factory.

Pikeville, Ky.—W. F. Windell, Pikeville, is planning the erection of a stave mill near Pikeville.

Bellaire, Ohio.—The Novelty Stamping Co. has selected a site on which it will erect a plant. The company manufactures enamel ware.

✚Cincinnati, Ohio.—The contract has been awarded to the ROCHE-BRUNER CO., Johnston Bldg., Cincinnati, for the construction of car barns in Hyde Park for the Cincinnati Traction Co.

Cincinnati, Ohio.—The Ohio Armleder Co., Cincinnati, will, it is reported, erect an addition to its plant for the manufacture of light auto trucks.

Cleveland, Ohio.—Plans are being prepared by Charles C. Conklin, Arch., 908 New England Bldg., for the erection of a 108 × 160 ft. ice plant for the City Ice Delivery Co., 908 New England Bldg.

Defiance, Ohio.—Contracts will soon be awarded for the erection of an extensive addition to the plant of the Defiance Pressed Steel Co.

Massillon, Ohio.—The Reliance Manufacturing Co. is receiving bids for the construction of a 1-story 35 × 135 ft. factory building. Plans by Albrecht & Wilhelm, South Erie St.

Piqua, Ohio.—The Piqua Hosiery Co. has had plans prepared by W. E. Russ, of Dayton, for the erection of a concrete factory building.

✚Toledo, Ohio.—The MeNoul Boiler Manufacturing Co. will erect a $35,000 boiler works in East Toledo. The plant will be 70 × 240 ft., and of brick and steel construction.

Evansville, Ind.—The Grocers' Chemical Works will, it is reported, erect a new plant. The cost will be about $70,000.

Evansville, Ind.—Plans are being prepared by J. L. Wills, Arch., 522½ Main St., for the erection of a carriage factory for F. W. Hulvershorn, 312 Oakley St. The structure will be 50 × 80 ft. and three stories high.

✚Indianapolis, Ind.—The contract has been awarded to WOLF & EWING, 333 Lemcke Bldg., for the erection of a factory addition to the plant of the Prestolite Co., 229 E. South St. The cost is $14,000.

Battle Creek, Mich.—Construction work will soon be started by the Nichols & Shepard Co., Battle Creek, for the erection of an addition to their plant, which will more than double its capacity.

Detroit, Mich.—A new factory for the Herreshoff Motor Co., with an entire block of Woodward Ave. frontage, is to be built by the company in the block at the east side of Woodward extending north and south from Belmont to Trowbridge Aves. The Belmont and Alley corner is diagonally opposite the Church of the Blessed Sacrament. The ground area covers 47,600 sq. ft.

Elgin, Ill.—The Borden Condensed Milk Co. will erect an addition to its Elgin, Ill., plant, the structure to be 60 × 120 ft. Reinforced-concrete construction will be used. The cost is $40,000.

Monmouth, Ill.—The Monmouth Creamery Co., Monmouth, Ill., has been incorporated and will erect a plant for the manufacture of dairy products.

Roselle, Ill.—The Rudolph Mfg. Co., Roselle, Ill., has been incorporated with $25,000 capital stock by H. J. Mensching, R. H. Rudolph and L. A. Mensching, it is reported.

Chicago, Ill.—George S. Carrington is having plans prepared for the construction of a 4-story factory building to cost over $50,000, on land recently purchased, having a south frontage of 135 ft. on Van Buren St., just east of Western Ave., to be occupied by him for the manufacture of valentines.

Chicago, Ill.—Plans have been completed for the erection of a 1-story ice storage plant for the Knickerbocker Ice Co., 39 South La Salle St. The cost is about $18,000. Contract will soon be awarded.

✚Mokena, Ill.—Contracts have been awarded to GEORGE H. HACK, Mokena, for carpentry and masonry for the bottling plant for the Bowman Dairy Co. Plans by Turnbull & Jones, Arch., 30 North La Salle St.

Milwaukee, Wis.—The Federal Engineering Co., Milwaukee, is having plans prepared for a factory to be 60 × 100 ft. at Scott St. and 26th Ave.

Milwaukee, Wis.—The Ambrosia Chocolate Co. will erect a $24,000 addition to its present plant.

Milwaukee, Wis.—The joint committee of the County Board of Supervisors and the State Board of Control have approved of the plans for the proposed $450,000 House of Correction plant at North Milwaukee, as prepared by Allen D. Conover, Arch. and Engr., Madison, Wis.

✚Sioux City, Iowa.—The contract has been awarded to Smith & Small, Sioux City, for the erection of a 5-story, brick, 85 × 150 ft., factory at Fifth and Wall Sts. The Johnson Biscuit Co. is the owner.

St. Paul, Minn.—The Stahl-Slater Lubricating Co., St. Paul, Minn., will erect a steel and concrete factory building on a recently purchased site. The cost is $20,000.

Porterville, Cal.—The Armour Packing Co. has ... BRO., 508 Baltimore Blk., St. Paul, were awarded the general contract for the construction of a 3-story pressed brick and cut stone reinforced-concrete factory for the Haynes Bread Co. at University Ave. near Dale St. Downs & Eads, New York Life Bldg., are Archs. Cost, $40,000.

+Minneapolis, Minn.—A. Cedarstrand & Co., 984 Central Ave., have been awarded the contract to erect a 4-story brick and reinforced-concrete stable and shop building for the Minneapolis Milk Co., at 507 Ninth Ave. Cost, $38,000.

+St. Louis, Mo.—The contract has been awarded to the MURCH BROS. CONSTRUCTION CO. for the erection of a plant. The Wrought Iron Range Co is the owner. The plant is to be at Natural Bridge Rd. and Terminal Belt R. R. tracks, where the Wrought Iron Range Co. has purchased 15 acres. The buildings are to be of brick and reinforced concrete and fireproof throughout. The estimate of $179,425 does not include the heating plant, heating apparatus and machinery, which are to be put in by the owners after the buildings are completed.

St. Louis, Mo.—The Dorris Motor Car Co., St. Louis, Mo., has had plans prepared for the erection of a 3-story reinforced-concrete automobile factory. The cost is $100,000.

Plainview, Tex.—It is reported that R. P. Smythe, Plainview, will erect a beet sugar factory to cost about $600,000.

Bay City, Tex.—Harvey Richards will install a marble cutting plant and yard here.

Corpus Christi, Tex.—Oliver B. Caldwell, who recently established a brass foundry, here contemplates installing an iron foundry in connection with the plant.

Rusk, Tex.—Bids will be received by B. E. Cabell, Chn. Prison Com., Huntsville, will receive bids until Oct. 7 for constructing a factory building at the State Prison at Rusk. Plans have been prepared by C. H. Page & Bro., Austin.

Sanderson, Tex.—The Continental Wax Co., which recently installed a plant here for the manufacture of wax out of the candelilla plant, which grows in this region, is preparing to install ten other plants of a similar character in the upper Rio Grande border section of the State. Oscar Pascius is Mgr.

San Antonio, Tex.—W. K. Durham, of Atlanta, Ga., is at the head of the Olympia Cotton Mills, which was recently organized with a capital stock of $250,000 for the purpose of erecting a large cotton mill here.

Oklahoma City, Okla.—It is reported that the Iten Biscuit Co. will soon receive bids for the erection of a plant at Compress and Washington Sts. The building will be five stories high, of reinforced concrete, and will cost about $150,000.

Ardmore, Okla.—The Bigham & Reed Manufacturing Co. has been incorporated with $10,000 capital by R. A. White and others. The company will manufacture galvanized-iron egg crates.

Los Angeles, Cal.—The Miles Tile Manufacturing Co. has been incorporated to manufacture cement roofing tile and cement tile building blocks, under the patents of F. Mc. M. Dawyer. The capital stock is $60,000 and the directors are George F. Miles, Lankershire Bld.; F. Mc M. Sawyer and F. A. Lake.

San Pedro, Cal.—It is reported that the Pacific Navigation Co. is planning the erection of a laundry plant at San Pedro.

Lompoc, Cal.—The Lompoc Warehouse Co. has been formed here with $75,000 capital to construct warehouses for storing, grading and preparing agricultural products for market.

Porterville, Cal.—The Armour Packing Co. will erect a fertilizer plant here to be 100 × 150 ft.

Los Angeles, Cal.—The Joseph Musto Sons-Keenan Co., marble and tile manufacturers and contractors, of San Francisco, will enter the local field by starting a plant in this city.

Montreal, Que.—The Canadian Consolidated Rubber Co. is making arrangements to spend about $500,000 on improvements and enlargements of their Montreal plant.

Hamilton, Ont.—The Grasselli Chemical Co., of Cleveland, will establish its Canadian factory in this city. Its representatives recently purchased 160 acres of land in the northeastern part of the city, and will there build the plant. It is expected that about $1,000,000 will be spent on the plant, and that at least 1,000 hands will be employed.

London, Ont.—A. W. Farmsworth, Consult. Engr., of London, Eng., in company with Charles Hook, of the Positive Clutch & Pulley Co., Toronto, have been visiting London, Toronto, Hamilton and Brantford, in connection with proposed establishment of a $5,000,000 steel plant. Address Chas. S. Hook, Positive Clutch Co., 13 Jarvis St., Toronto.

Belen, N. Mex.—The Adolthe Didier Distilling Co., which was recently formed with a capital of $40,000, will install a distillery here.

Colima, Mex.—Arturo Le Harivel and associates of this place have just closed a deal for the sale of their large iron deposits in this state to a French syndicate represented by Ferdinand Susteric, the consideration being $1,000,000 Mexican currency. It is reported that the syndicate will install a large iron and steel plant upon the property.

MISCELLANEOUS CONTRACTS.

*(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

Excavation, Fence.—Boston, Mass.—Bids will be received until Sept. 26, by the Metropolitan Park Commission, for the following work at Charles River embankment: 3,500 cu. yds. excavation; 3,650 cu. yds. loam; 3,100 sq. yds. granolithic walks, gutters and curbs; and in Somerville at Alewife Brook Parkway, 1850 lin. ft. iron fence. John R. Rablin is Ch. Engr. Comn.

Repairing Piers.—Boston, Mass.—Bids will be received until Sept. 26 by the Public Works Department for repairing the piers at East Boston Ferry Landing north. Louis K. Rourke is Comr. Pub. Wks.

Waterfront Improvements.—Boston, Mass.—Bids will be received until 11 a. m., Oct. 21, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for waterfront improvements at the navy yard, Boston.

***Removing Rock.**—Newport, R. I.—Bids were received on Sept. 15 as follows by Col. Frederic V. Abbot, Corps Engrs., U. S. A., Newport, for removing ledge rock in Pawtucket River, R. I.: (a) Section 1, per cu. yd.; (b) Section 2; (c) Section 3; (d) totals: Eastern Dredging Co., Boston, Mass., (a) $8.40, (b) $7.90, (c) $5.90, (d) $19,028; Johnston & Verdon, Lewes, Del., (a) $7.50, (b) $7.50, (c) $7.50, (d) $19,387; John J. Fitzpatrick & Sons, Plattsburgh, N. Y., (a) $7.49, (b) $7.49, (c) $7.49, (d) $19,362. The quantities are: Section 1, 685 cu. yds.; Section 2, 1,032 cu. yds.; Section 3, 868 cu. yds.

Breakwater Extension.—Buffalo, N. Y.—Bids were received as follows on Sept. 11 by Lieut. Col. J. G. Warren, Corps Engrs., U. S. A., Buffalo, for breakwater extension at Cape Vincent, N. Y.: (a) 3,000 tons of stone for foundation; (b) 220 lin. ft. timber cribs, complete; (c) 832 cu. yds. of concrete in place; (d) seven mooring posts; (e) 440 lin. ft. of white oak fender; (f) totals: Inland Waterways Co., Ashtabula, Ohio, (a) $1.30 per ton; (b) $83.55 per lin. ft.; (c) $6.50 per cu. yd.; (d) $26 each; (e) 75 cts. per lin. ft.; (f) $28,201. H. T. Doyle & Co., Albany, N. Y.: (a) $1.20; (b) $84.50; (c) $6.50; (d) $40; (e) $1.20; (f) $28,406.

Dredging.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Sept. 27, for furnishing all the labor and materials required for dredging in the Boros of Manhattan, Brooklyn and Queens.

+*Subway.—New York, N. Y.—The contract for the construction of Section 12 of the proposed Lexington Ave. Subway of the Tri-Borough System was awarded on Sept. 12 to the OSCAR DANIELS CO., Chicago, Ill. Its bid was $2,825,740. Section 12 extends from 105th to 117th Sts.

Piers.—New York, N. Y.—Bids will be received until 11 a. m., Oct. 7, by the Dept., Washington, D. C., for two timber and reinforced concrete piers, E and F, at the navy yard, New York.

Pier, Etc.—New York, N. Y.—Calvin Tomkins, Comr. of Docks, is preparing to let contracts for a new ferry terminal for the 39th St. Ferry, Borough Brooklyn, to cost $200,000, and a new pier at the foot of Nott ave., Long Island City.

Rope.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Oct. 2, for furnishing all the labor and material required for fornishing and delivering manila rope.

Cement, Sand, Etc.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Oct. 2, Contract No. 1284, for furnishing all the labor and materials required for furnishing and delivering cement sand and broken stone and for furnishing, delivering and putting in place, riprap stone.

Motor Trucks.—New York, N. Y.—Bids will be received by Joseph Johnson, Fire Comr., until 10.30 a. m., Oct. 2, for furnishing and delivering two 3-ton motor trucks, and for furnishing and delivering two 1½-ton motor trucks.

Reducing Grades.—Utica, N. Y.—The County Engineer estimated the cost of reducing grades over the Barge Canal in Oneida County at $25,000, exclusive of the cost of the North Genesee St. Bridge.

Dredging.—Wilmington, Del.—Bids for dredging Salem River, N. J., were received by Maj. R. R. Raymond, Corps Engrs., U. S. A., Wilmington, on Sept. 9, as follows: The Rickard Dredging Co., Philadelphia, Pa., 38 cts. per cu. yd., place measurement; River & Harbor Improvement Co., Philadelphia, 29 cts.; Atlantic Dredging Co., Philadelphia, 18.7 cts.

Riprap.—Washington, D. C.—Bids were received as follows on Sept. 15 by Col. W. C. Langfitt, Corps Engrs., U. S. A., Washington, for furnishing 20,000 cu. yds. of riprap for training dykes: Washington Stone Co., Washington, $19,600; Columbia Granite & Dredging Corporation, Washington, $24,600.

Paving Blocks, Steel, Etc.—Washington, D. C.—Bids will be received until Sept. 26 by the Bureau Supplies and Accounts, Navy Dept., Washington, for furnishing at the navy yards and naval stations, supplies as follows. Washington, D. C., Schedule 3917, 20,000 asphalt paving blocks; Schedule 3918, 16,800 lbs. crucible spring steel; 52,000 lbs. crucible tool steel;; Norfolk, Va., Schedule 3923, 8,400 lbs. Medium bar steel. Brooklyn, N. Y., Schedule 3923, 60,000 lbs. medium bar steel. Boston, Mass., Schedule 3923, 78,350 lbs. bar chain iron; Schedule 3925, 50,000 lbs. manganese bronze. Philadelphia, Pa., Schedule 3925, miscellaneous brass bolts and steel bolts and nuts. Applications for proposals should designate the schedules desired by number.

Repairs to Roof Covering.—Norfolk, Va.—Bids will be received until 11 a. m., Oct. 21, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for repairs to roof covering of building No. 59, at the navy yard, Norfolk.

Air Compressor.—Norfolk, Va.—Bids will be received until 11 a. m., Sept. 30, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a portable air compressor and accessories for the navy yard, Norfolk.

Dredging.—Richmond, Va.—No bids were received on Sept. 7 by the city for dredging the left shore of James River to Nicholson St. C. E. Bolling is City Engr.

Dredges and Boats.—Charleston, S. C.—Bids were received as follows on Sept. 5 by Maj. G. D. Howell, Corps Engrs., U. S. A., Charleston, for two steel-hull, stern-wheel, combination bucket dredges and snag boats: (a) for one boat; (b) for two boats: The Marion Steam Shovel Co., Marion, Ohio, (b) $82,000; M. A. Sweeney Shipyard & Foundry Co., Jeffersonville, Ind., (a) $29,480 (in 6 months); (b) $58,960 (in eight months); Merrill-Stevens Co., Jacksonville, Fla., (a) $37,500; (b) $72,500.

Steel and Cast Iron.—New Orleans, La.—Bids will be received by the Board of Commissioners of the Port of New Osleans, 200 New Orleans Court Bldg., New Orleans, until 7.30 p. m., Oct. 17, for the fabrication and erection of the structural steel and cast iron for the Press St. shed.

Levee Enlargement.—Greenville, Miss.—Bids will be received by the Mississippi Levee Commissioners at Greenville, until 11 a. m., Oct. 2, for constructing about 570,000 cu. yds. of enlargement work in the Mississippi Levee District. W. T. Shackelford is Ch. Engr.

Levee Work.—New Orleans, La.—The bid of Lowrence Bros. & Co., of Memphis, Tenn., at $75,088, has been recommended for award of contract for levee work in the Lower Tensas District, and that of M. L. Linnan, of Baton Rouge, La., for levee work in Lafourche Levee District, at $5,168. Bids were opened on Sept. 4 by Maj. H. Burgess, Corps Engrs., U. S. A.

Levee Work.—New Orleans, La.—Bids were received by the State Engineer on Sept. 4 for levee work. The following have been recommended for award of contract: Biggs Levee, Madison Parish, about 90,000 yards., Luman Bros., at 32 cts.; Reid Levee, Madison Parish, raising and enlarging, contents 75,000 cu. yds., W. T. & E. M. Lowrence, 35 cts.; Upper Lucca Levee, Desha County, Ark., raising and enlarging, contents, 50,000 cu. yds., George R. Lacey & Co., 23 cts.; Lower Lucca Levee, raising and enlarging, contents 45,000 cu. yds., W. T. & E. M. Lowrence, 22 cts.; G. R. Lacey, 22 cts.; Kemp Levee, Tensas Parish, raising and enlarging: contents, 60,000 cu. yds.; Donovon & Daly, 31.50 cts.; Carolina Levee, Bossier Parish, new levee, contents 75,000 cu. yds. W. M. Rushing, 13.9 cts.

+*Lock and Dam.—Louisville, Ky.—Bids were received Sept. 7 by Capt. Lytle Brown, Corps Engrs., U. S. A., Louisville, for constructing Lock and Dam No. 48. The contract has been awarded to the OHIO RIVER CONTRACT CO., of Evansville, Ind., at $1,397,400.

+Dredge Work.—Ashland, Ohio.—GILMORE BROS., of Toledo, Ohio, have been awarded the contract for dredge work on the Jerome Fork Improvement No. 2, at 9.68 cts. per cu. yd.

Levee.—Columbus, Ohio.—Bids will be received by H. S. Holton, Dir. of Pub. Ser., until Sept. 27, for the necessary labor and materials for the construction of a levee on the east side of Scioto River, south of the Moler St. Bridge.

Comfort Station.—Columbus, Ohio.—Bids will be received by H. S. Holton, Dir. of Pub. Ser., until Sept. 27, for the construction of a shelter house and comfort station in Goodale Park. Plans and specifications have been prepared by Henry Maetzel, City Engr.

Statue.—Columbus, Ohio.—The contract for designing and erecting a statue and memorial to Christopher Columbus here has been awarded to ROBINSON & CO., New York, at $70,000.

Smoke Stack.—Plainfield, Ind.—Bids are being received by the Trustees of the Boys' School, Plainfield, for the construction of a brick [illegible] stack 150 ft. high. Charles Bross[illegible] 43 Union Trust Bldg., Indianapol[illegible] Engr.

Park.—South Bend, Ind. [illegible] City Council has employed Geo[illegible] Kessler, Landscape Arch., St. [illegible], Mo., to prepare plans for a p[illegible] system. Bids for the work wi[illegible] be received by the Park Comm[illegible] as soon as the plans are compl[illegible].

+Grain Elevator.—Sheboy[illegible], Wis.—The contract has been awa[illegible] to the BARNETT & RECORD CO., [illegible] neapolis, Minn., for the erection [illegible] circular, reinforced concrete grain [illegible] tor, 85 ft. high by 35 ft. in diamete[illegible] having a combined capacity of [illegible] 000 bu. The Konrad Schreier Brew[illegible] Co. is the owner.

Ditch.—Pipestone, Minn. [illegible] Bids will be received by S. W. Funk, [illegible] Recdr., until Sept. 25, for construc[illegible] a covered tile ditch, 7,700 ft. in l[illegible], averaging about 5 ft. in depth, [illegible] tile to be 12-in., of cement or [illegible] City (Iowa) clay.

+Drainage Canal.—Wich[illegible], Kan.—The contract for extending [illegible] Wichita Drainage Canal, including [illegible] 766 cu. yds. of excavation, 4.48 acre[illegible] clearing two concrete bridges, four [illegible] bridges, two temporary bridges; [illegible] for a drainage ditch from the Wi[illegible] Drainage Canal at 19th St. to the intersection of Chisholm Creek and 21[illegible] St., including 13,000 cu. yds. exca[illegible]on, 1.15 acres clearing, has been awarded to the POLLARD CAMPBELL [illegible]EDGING CO., of Omaha, Neb., at $22,[illegible].

Ditches.—Warrensburg, Mo.—Bids will be received until Sept. 2[illegible] by the County Clerk, Warrensburg, for constructing a main ditch, 6.41 miles in length, 6.5 miles of laterals and building necessary bridges. C. E. Jacoby is Engr., 515 Shukert Bldg., Kansas City, Mo.

Excavation.—Brinkley, Ark.—Bids will be received until Oct. 1[illegible] for the excavation of about 250,000 yds. of dirt in the Piney Drainage District in Monroe and Lee Counties, Ark., near Brinkley. Address J. A. Sane, Secy., Brinkley, for specifications and further information.

Levee.—Pecan Point, Ark.—Bids will be received by the St. Francis Levee District, Maria, Ark., until noon, Oct. 9, for the construction of a loop levee one mile above Pecan Point, to contain approximately 100,000 cu. yds.—R. G. Covington is Ch. Engr., 368 Randolph Bldg., Memphis, Tenn.

Drainage System.—Texas City, Tex.—See item under Bridges.

***Lock Valves, Gates, Etc.**—Dallas, Tex.—Bids will be received until noon, Oct. 18, by Capt. T. H. Jackson, Corps Engrs., U. S. A., Dallas, for constructing lock valves, two sets steel lock gates, and operating gear to be delivered at Herrington, Tex., on Gulf, Colorado & Santa Fe Ry.

Piping.—Houston, Tex.—Bids will be received until noon, Sept. 25, by E. O. Lovett, Pres., William M. Rice Institute, Scanlan Bldg., Houston, for the piping in tunnel extension for the Institute.

Ditches.—Brownsville, Tex.—Bids will be received at the office of A. W. Amthor, Drainage Engr., by George M. Smith, Chmn. Bd. Drainage Comrs., of Cameron County, until Oct. 3, for the construction of drainage ditches. Estimated cost, $200,000.

Fire Station.—Boise, Idaho.—Plans for a fire station to be erected at 15th and Rossequile Sts., have been completed by Vinton Fisher.

Dredging.—Seattle, Wash.—Bids for dredging in Snohomish River, Wash., will be received by Maj. J. B. Cavanaugh, Corps Engrs., U. S. A., until noon, Sept. 28.

Wall.—Coronado, Cal.—Plans for the construction of a parapet wall and cement walk along the seawall to protect the Ocean Front Boulevard, have been prepared by the City Engineer. The estimated cost is $22,000.

+Jetty Slip.—Eureka, Cal.—The contract for constructing a slip at the South Jetty here, has been awarded to the PETTERSON CONSTRUCTION CO., of Oakland, Cal. List of bidders noted on Sept. 14.

Pier.—San Francisco, Cal.—Plans are being prepared for a new pier to be erected at the foot of Union St. There will be two sections of seawall constructed at once, those lying between sections 22 and 24. The plans for this work will be complete and bids will be called for within a month. The Union St. pier will cost approximately $200,000.

Pier Improvement.—Oakland, Cal.—Plans are being drawn by the Southern Pacific Co. for the improvement of their long wharf pier. The plans call for the expenditure of more than $500,000, and docks large enough to accommodate the largest ships on the Pacific. The old coal bunkers will be torn down to make room for three more slips. These slips will be 700 ft. long and 200 ft. wide at the opening and 100 ft. wide at the narrowest end. Instead of the double-track railway system, which is in operation at the present time, it is planned to make the system one of four tracks. W. Hood is Ch. Engr., San Francisco.

Ice Pier.—L'Assumption, Que.—Bids will be received until Sept. 27 by R. C. Desrochers, Secy., Pub. Wks. Dept., Ottawa, Ont., for the construction of an ice pier in River L'Achigan, near L'Assumption. Plans, specifications and

form of contract can be seen and forms of proposal obtained at the offices of J. L. Michaud, District Engr., St. James St., Montreal, or from the Postmaster, L'Assumption.

Wharf.—New Liskeard, Ont.—Bids will be received by R. C. Desrochers, Secy., Dept. Pub. Wks., until 4 p. m., Sept. 27, for constructing a public wharf at New Liskeard. Plans are on file at the office of J. G. Sing, District Engr., Confederation Life Bldg., Toronto.

Breakwater.—North Bay, Ont.—Bids will be received until Oct. 3, by R. C. Desrochers, Secy., Pub. Wks. Dept., Ottawa, Ont., for the construction of a breakwater there. Plans, specifications and form of contract can be seen and form of proposal obtained at Ottawa, or at the offices of J. G. Sing, District Engr., Toronto, or the Postmaster, North Bay.

Dredging.—Sarina, Ont.—Bids will be received by R. C. Desrochers, Secy., Dept. Pub. Wks., until 4 p. m., Oct. 3, for dredging basin at Sarnia, Lambton County.

House.—Cochrane, Ont.—Bids will be received until Oct. 2, by P. E. Ryan, Secy., Comrs. Transcontinental Ry., Ottawa, Ont., for the erection of a trainmen's house required at Cochrane, on the line of the Transcontinental Ry. Plans and specifications may be seen and further information obtained at the office of Gordon Grant, Ch. Engr., Ottawa, and H. M. Balkam, District Engr., Cochrane.

Wharf Extension. — Fourchu, N. S.—Bids will be received until Sept. 27, by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for the construction of an extension to wharf and repairs at Fourchu, Richmond County, N. S. Plans, specifications and forms of proposal may be had at the offices of G. A. Bernasconi, District Engr., North Sydney, N. S.; C. E. W. Dodwell, District Engr., Halifax, N. S., on application to the Postmaster at Fourchu, and at the office of R. C. Desrochers, Secy., Ottawa.

Breakwater Extension. — Craigmore, N. S.—Bids will be received until Sept. 27 by R. C. Desrochers, Secy., Dept. Pub. Wks., Ottawa, Ont., for the construction of an extension to the breakwater at Long Point, Craigmore, Inverness County, N. S. Plans, specifications, etc., may be obtained at the offices of C. E. W. Dodwell, District Engr., Halifax, N. S.; E. G. Millidge, District Engr., Antigonish, N. S., on application to the Postmaster at Long Point, Craigmore, and at the office of R. C. Desrochers, Secy., Ottawa.

U. S. POSSESSIONS AND CUBA.

Structural Steel. — Panama. — The Jones & Laughlin Steel Co., Pittsburgh, Pa., has submitted the lowest bid to the Isthmian Canal Commission for about 3,000 tons of structural steel for the spillway gates and valves at the canal.

+Spillway Gates, Etc.—Panama.—The EXCELSIOR TOOL & MACHINE CO., of East St. Louis, Ill., it is reported, has been awarded the contract for reinforcing material at $23,722. The WESTINGHOUSE MACHINE CO., of East Pittsburgh, Pa., has received the contract for cast steel, tool steel and steel bolts, at $158,898.

Storehouse. — Hawaii. — Bids will be received until 11 a. m., Nov. 11, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for a general storehouse at the U. S. Naval Station,

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
9-23	Structural steel, Cuba...(S)	8-31
9-23	Garbage crematory, Newport, R. I....(S.)	9-21
9-30	Air compressor, Norfolk, Va....(S.)	9-21
9-30	Cranes, Norfolk, Va....(S.)	9-21
9-30	Sea wall, Norfolk, Va....(S)	8-31
9-30	Track, Norfolk, Va....(S)	8-31
10- 2	Ditches, Powell, Wyo...(S.)	8-31
10- 4	*Bridge, Bermuda, La.(P.&S.)	9- 7
10- 7	Piers, Washington, D C (S)	9-14
10-21	Roof covering, Norfolk, Va....(S.)	9-21
10-21	Waterfront impvts., Boston, Mass....(S.)	9-21
10-28	Impvts. to quarters, Vallejo, Cal....(S.)	9-21
11-10	and 11 Building, Hawaii.(S.)	9-21
11-10	and 11, Storehouse, Hawaii....(S.)	9-21

Light, Heat and Power Plants.

Bids close.		Noted in issue of
9-22	Electric light plant and water-works system, Grafton, N. D., etc.	9-21
9-23	Copper bonds, Washington, D. C.	9- 7
9-25	Heating and ventilation system, Los Angeles, Cal.	9- 7
9-25	Power-house, etc., Scott, Sask.	9- 7
9-25	Electrical supplies, Brazil (Foreign)	7-27
9-25	Alterations to gas works, Randalls Island, N. Y.	9-21
9-26	Ornamental lamp standards, Pasco, Wash.	9-21
9-26	Wiring and lighting fixtures, New York, N. Y.	9-21
9-27	Magnatite lamps, equipment and condensers, Columbus, Ohio	9-21
9-28	Lighting fixtures, Washington, D. C.	9-21
9-28	Engine and generator, Washington, D. C.	9-21
9-31	Hydro-electric power plant, Riverdale, Utah	8-24
10- 2	Elec. equipment, New York.	9-21
10- 3	Heating and lighting system, Fort Stevens, Ore.	9-21
10- 9	*Hydroelectric station and equipment, Wash., D. C.	9-14
10- 9	Lighting fixtures, Los Angeles, Cal.	9-21
10- 9	Heating and ventilating system, Los Angeles, Cal.	9-21
10-11	Power house, Colonial Beach, Va.	8-31
10-11	*Lighting fixtures, etc., Omaha, Neb.	9-21
10-12	*Power house and equipment, Wheeling, W. Va.	9-21
10-12	Lighting fixtures, Butte, Mont.	9-14
10-18	Street lighting, Charleston, S. C.	9-14
10-23	Electrical equipment, Los Angeles, Cal.	9-21
10-24	Inverted lamps and posts, Boston, Mass.	9-21

Bridges.

9-22	Bridge, Cincinnati, Ohio	9- 7
9-22	*Bridge, Phoenix, N Y	9-14
9-23	Bridge, Clearfield, Pa	9- 7
9-25	Bridge work, Minneapolis, Minn.	9- 7
9-23	Bridge w'k, Vicksburg, Miss.	9-14
9-25	*Viaduct, Fitchburg, Mass.	8-31
9-25	Bridge, Newkirk, Okla	9-21
9-25	Bridges, Turlock, Cal	9-21
9-25	Bridge, Edgefield, S. C	9-21
9-25	Bridge, Springfield, Ohio	9-21
9-26	Trestle, Newcastle, Wash.	9-21
9-28	Bridge, Burley, Idaho	9-14
9-30	Bridges, Lockport, Ill	9-21
10- 2	Bridge, Council Grove, Kan.	9-21
10- 2	Bridges, Hendersonville, N. C.	9- 7
10- 4	*Bridge, Bermuda, La	9- 7
10- 4	Bridge, Cartersville, Ga	9-21
10- 4	Bridges, Albuquerque, N. M.	9-21
10- 4	Bridge, Norristown, Pa	9-21
10- 7	Bridge work, Cleveland, O.	9-14
10-10	Bridge, Theodore, Utah	9-21

Buildings.

Bids close.		Noted in issue of
9-22	School, Green Castle, Pa	9-14
9-23	Hospital, Toronto, Ont	9-14
9-23	Library, Cleveland, Ohio	9-14
*9-26	Cork tile floors, Albany, N.Y.	9-21
9-25	School, Lexington, S. C	9-14
9-26	School, Indianapolis, Ind	9-14
9-26	Armory, New York, N Y	9-14
9-26	Immigration sta., Gloucester, N. J	9-21
9-26	School, Minot, N. Dak	9-21
9-28	School, Gretna, La	9-21
9-30	School, Norwalk, Cal	9-21
9-30	School, Gainesville, Fla	9-14
10- 2	School, Moville, Iowa	9-21
10- 2	School, Kearny, N. J	9-21
10- 2	School, New York, N. Y	9-21
10- 5	*Ice-making ammonia compressor, Hot Springs, Ark.	9-14
10- 6	U. S. post office, Pendleton, Ore.	9- 7
10- 7	Factory for prison, Rusk, Tex. (Mfg. Pl.)	9-21
10- 9	U. S. post office, Winchester, Ky.	8-31
10-10	U. S. post-office, Washington, D. C.	8-31
10-11	*Cells, etc., for jail, Omaha, Neb.	9-21
10-11	U. S. post-office, Newberry, S. C.	9-21
10-11	Sheep exhibit bldg. Columbus, Ohio	9-21
10-31	*U. S. post-office, Florence, Ala.	9-21
10-31	*U. S. post-office, Minneapolis, Minn.	9-14

Water-Works.

9-21	Brass cocks, Chicago, Ill	9-21
9-22	Water pipe, Boston, Mass.	9-21
9-22	Water-works, Grafton, Neb.	9-21
9-22	Water extensions, Fort Barrancas, Fla.	9- 7
9-22	Water mains, Grand Forks, N. D.	9-14
9-23	Water pipe, West Allis, Wis.	9- 7
9-25	Reservoir, etc., Scott, Sask.	9- 7
9-25	*Filtration plant, Fairfield, Iowa	8-24
9-25	*Water pipe, Haileyville, Okla.	9-14
9-25	Watermain, Minot, N. Dak.	9-21
9-25	Water tower, Grand Rapids, Minn.	9-21
9-25	Dam, etc., Huntington, Pa.	9-21
9-26	Pipe, hydrants, Los Angeles, Cal.	9-21
9-26	Water tank, Sun Prairie, Wis.	9-21
9-26	Well pump, Lostant, Ill	9-21
9-26	Cisterns, Terry, Mont	9-14
9-26	Water extension, Fort Sam Houston, Tex	8-31
9-26	Blowoff, conduit, New York.	9- 7
9-27	*Water mains, Tarrytown, N. Y.	9-14
9-27	Watermains, Newnan, Ga	9-21
9-27	Draft system, New York	9-21
7-27	Watermains, Linndale, Ohio.	9-21
9-28	Pipe, Spokane, Wash	9-21
9-28	Water system, Tracy, Cal	9-21
9-28	Pipe fittings, Fort Logan, Colo.	9-21
9-28	Reservoir, Lafayette, Ind	9-14
9-28	Fountain, Fond du Lac, Wis.	9-14
9-29	Reservoir, Toledo, Ohio	8-31
9-29	Dam, etc., McAlester, Okla.	9-21
9-29	Enlarging dam, Jefferson, O.	9-21
9-30	Machinery, etc., Alliance, Neb.	9-21
9-30	Watermains, Summerville, Ga.	9-21
10-2	Pipe, Newell, S. Dak	9-21
10- 2	W.-wks. material, Nocona, Tex.	9-21
10- 2	Intake pipe, etc., Muskegon, Mich.	9-21
10- 2	Water-works, Upland, Wyo.	9-21
10- 2	Ditches, Powell, Wyo	8-31
10- 3	Drainage system, Brownsville, Tex.	9-14
10- 3	Filter plant, Montreal, Que.	9-21
10- 3	Canal, Manteca, Cal	9-21
10- 3	Water meters, Los Angeles, Cal.	9-21
10- 4	Pumping station repairs, New York	9- 7
10- 6	Force-main, Monterey, Cal.	9-21
10-11	*Water-works, Colonial Beach, Va.	8-24
10-12	*Canal, Yuma, Ariz	9-21
10-12	*Intake pipe, etc., Windsor, Ont.	9-21
10-16	Dam, Carlsbad, N. Mex	9- 7

Sewers.

Bids close.		Noted in issue of
9-21	Sewer, Dubuque, Iowa	9-21
9-22	Sewers, Troy, N. Y	9-21
9-22	Sewers, Hartford, Conn	9-21
9-22	Sewer, Lansingburgh, N. Y.	9-21
9-25	Sewers, Venice, Cal	9-21
9-25	Sewers, Tonawanda, N. Y	9-21
9-25	Sewer system, Fairfield, Ia.	9-21
9-25	Sewage disposal plant Rockhill, S. C	9-14
9-25	*Sewers, Auburn, Ala	9-14
9-26	Sewers, Louisville, Ky	9-21
9-26	*Sewers, Rahway, N. J	9-21
9-27	Sewer, Jersey City, N. J	9-21
9-27	Trunk sewer, Columbus, O.	9-21
9-27	Sewers, Amsterdam, N. Y	9-21
9-27	Sewer lines, Newnan, Ga	9-21
9-27	Sewer, Toledo, Ohio	9-21
9-28	Sewers, Tracy, Cal	9-21
9-28	Drain, Bethany, Ill	8-24
10- 2	Sewer, Fargo, N. Dak	9-21
10- 3	Sewer system, Hilliards, O.	9-21
10- 5	Sewers, Huntington, W. Va.	9-21
10- 5	Disposal plant, Madison, S. Dak.	9-14
10- 6	*Sewers, Dallas, Tex	9-21
10- 9	Sewers, Jacksonville, Fla	9-21
10-11	*Sewers, etc., Colonial Beach, Va.	8-24
10-20	Sewers, Payette, Idaho	9-21
10-30	Sewers, Summerville, Ga	9-21

Streets and Roads.

9-21	Paving brick, Chicago, Ill.	9-21
9-22	Paving, Cedar Rapids, Iowa.	9-21
9-22	Paving, etc., Hartford, Ohio.	9-21
9-22	Repaving, Grand Forks, N. Dak.	9-21
9-22	Paving, etc., St. Louis, Mo.	9-21
9-22	Road, Warner, N. H	9-21
9-22	Road improvement, Cincinnati, Ohio	9- 7
9-22	Paving, etc., Middletown, O.	9-14
9-25	Grading, etc., Mt. Vernon, O.	9-14
9-25	Grading, etc., Minneapolis, Minn.	9- 7
9-25	Crushed stone, Sandusky, Ohio	9- 7
9-25	Paving, Wheeling, W. Va	9-21
9-25	Grading, Armour, S. Dak	9-21
9-25	Pav'g, etc., Greenwich, Conn.	9-21
9-25	Paving, Montreal, Que	9-21
9-25	Road impvt., Los Angeles, Cal.	9-21
9-25	Sidewalks, etc., Aberdeen, S. Dak.	9-21
9-25	Gravel road, Brown Mills, N. J.	9-21
9-25	Paving, Boston, Mass	9-21
9-26	Sidewalks and curb, Pasco, Wash.	9-21
9-26	Gravel roads, Toms River, N. J.	9-21
9-26	Paving, etc., New York	9-21
9-26	Grading, etc., Medina, Ohio.	9-14
9-26	Street improvement, Monticello, Ind.	9-14
9-27	Paving, etc., Columbus, O.	9-21
9-28	System of sts., Teague, Tex.	9-21
9-28	Paving, etc., Cleveland, O.	9-21
9-28	Paving, Wheaton, Ill	9-21
9-28	*Paving, etc., Burlington, N.C.	9-14
9-29	Paving, Catlin, Ill	9-14
9-29	Street improvement, Cincinnati, Ohio	9- 7
9-29	Paving, Grafton, W. Va	9-21
9-29	Paving, etc., Frostburg, Md.	9-21
10- 1	Paving, Galveston, Tex	9-21
10- 1	Paving, Bartlesville, Okla.	9-21
10- 2	Street impvt., Middletown, Ohio	9-21
10- 2	Road construction, Pomeroy, Wash.	9-21
10- 2	Paving, Fresno, Cal	9-21
10- 2	Road-fill, Warren, Ohio	9-21
10- 2	Sidewalks, Grove City, Ohio.	9-21
10- 3	Paving, Sharon, Pa	9-21
10- 3	Gravel rd., Rensselaer, Ind.	9-21
10- 3	Gravel rds., Lawrenceburg, Ind.	9-21
10- 3	Gravel rd., Bedford, Ind	9-14
10- 3	Paving, etc., Palatka, Fla.	9-14
10- 3	Gravel roads, Logansport, Ind.	9-21
10- 3	Grading, etc., Oneonta, Ala.	9-21
10- 3	Curb and gutter, Cedartown, Ga.	9-21
10- 4	Macadam road, Rushville, Ind.	9-21
10- 4	Stone road, Bloomington, Ind.	9-21
10- 4	Paving, etc., Anniston, Ala.	9-21
10- 4	Road impvt., Pittsburgh, Pa.	9-21
10- 5	Paving, Huntington, W. Va.	9-21
10- 6	Road Impvt., Cincinnati, O.	9-14
10- 7	Grading, etc., Cleveland, O.	9-14
10- 9	Gravel road, Williamsport, Ind.	9-21
10-10	Paving, etc., Caldwell, Ohio.	9-14
10-10	Gravel road, Bluffton, Ind.	9- 7
10-21	Gravel road, Williamsport, Ind.	9-14

Miscellaneous.

Bids close.		Noted in issue of
9-22	Dredging, Richmond, Va	9-14
9-22	*Dredging, Norfolk, Va	8-24
9-22	*Dredge, Wheeling, W. Va	8-31
9-23	Structural steel, Cuba (U. S. Poss.)	8-31
9-23	Copper bars, etc., Panama (U. S. Poss.)	9- 7
9-23	Garbage crematory (Garbage), Newport, R. I	9-21
9-25	Incinerator (Garbage), Victoria, B. C.	9-21
9-25	Piping, Houston, Tex	9-21
9-25	Ditch, Pipestone, Minn	9-21
9-25	Crushed stone, Sandusky, Ohio	9- 7
9-25	Wharf, Red Bay, Ont	9- 7
9-25	*Metal lockers, Chicago, Ill.	8-31
9-25	Wharf, boat-house, Kingston, Ont.	8-31
9-25	Fire apparatus, Winnipeg, Man.	8-24
9-25	Breakwater, Ottawa, Ont.	9-14
9-26	Dredging, Herkimer, N. Y.	9-14
9-26	Retaining wall, Owen Sound, Ont.	9-14
9-26	Repairing piers, Boston, Mass.	9-21
9-26	Ditches, Warrensburg, Mo.	9-21
9-26	Paving blocks, etc., Washington, D. C	9-21
9-26	Excavation, fence, Boston, Mass.	9-27
9-27	Wharf ext., Fourchu, N. S.	9-21
9-27	Wharf, New Liskeard, Ont.	9-21
9-27	Ice pier, L'Assumption, Que.	9-21
9-27	Breakwater ext., Craigmore, N. S.	9-21
9-27	Dredging, New York, N. Y.	9-21
9-27	Levee, Columbus, Ohio	9-21
9-27	Comfort station, Columbus, Ohio	9-21
9-27	Garbage removal (garbage), Hoboken, N. J	9-21
9-27	*Dredging, Washington, D. C.	8-31
9-28	Dredging, Seattle, Wash	9-21
9-30	Air compressor, Norfolk, Va.	9-21
9-30	Track, Norfolk, Va	8-31
9-30	Sea wall, Norfolk, Va	8-31
9-30	Cranes, Wash., D. C	9-14
10- 2	Channel excavation, Chicago, Ill.	9-14
10- 2	Breakwater, North Bay, Ont.	9-14
10-2	*Lockkeepers' houses, Wheeling, W. Va.	9- 7
10-2	*Dredging, etc., Buffalo, N. Y.	9- 7
10- 2	*Extending jetty, Portland, Ore.	9- 7
10- 2	Levee, Jackson, Miss	9-14
10- 2	Insulators, Australia (Foreign)	9-21
10- 2	House, Cochrane, Ont	9-21
10- 2	Levee enlargement, Greenville, Miss.	9-21
10- 2	Cement, sand, etc., New York	9-21
10- 2	Motor trucks, New York	9-21
10- 2	Rope, New York	9-21
10- 3	Ditches, Brownsville, Tex	9-21
10- 3	Dredging, Sarnia, Ont	9-21
10- 3	Breakwater, No. Bay, Ont.	9-21
10- 3	*Bulkhead, Providence, R. I.	8- 7
10-6	Reinforcing grids, etc., Panama (U. S. Poss.)	9-21
10- 7	Piers, New York, N. Y	9-21
10- 7	*Dredging, etc., New York	9- 7
10- 7	Piers, Washington, D. C.	9-14
10- 7	Dredging, Raritan, N. J	9-14
10- 9	Levee, Pecan Point, Ark	9-21
10- 9	Hydroelectric station, Panama, (U. S. Poss.)	9-21
10-10	Crane, Brazil (Foreign)	9-21
10-10	Excavation, Brinkley, Ark.	9-21
10-16	Rock, Alpena, Mich.	9-14
10-10	*Mail-handling apparatus, Washington, D. C.	8-31
10-10	*Mechanical equipment, Washington, D. C.	8-31
10-10	Elevator plant, Washington, D. C.	8-31
10-12	Dredging, Hawaii (U. S. Poss.)	9- 7
10-14	Lock, Louisville, Ky	9-14
10-17	*Garbage plant (Garbage), Paterson, N. J.	8-31
10-17	*Steel and cast iron, New Orleans, La.	9-21
10-18	*Lock valves, gates, etc., Dallas, Tex.	9-21
10-21	Waterfront impvts., Boston, Mass.	9-21
10-21	Roof covering, Norfolk, Va.	9-21
11-10	and 11, storehouse, Hawaii (U. S. Poss.)	9-21
11-10	and 11, Building, Hawaii (U. S. Poss.)	9-21
11-11	Storehouse, Hawaii (U. S. Poss.)	9-21
11-19	Elec. lighting, Roumania (Foreign)	9-21
12- 1	*Pumping machinery, India, (Foreign)	——

Examinations.

Examination date.		Noted in issue of
10- 4	Laboratory Assistant, Washington, D. C.	9-14
10- 4	Laboratory Assistant in timber tests, Washington, D. C.	9-14

Pearl Harbor, Hawaii. Bids for the same work will be received at the office of the Commandant of the Naval Station, Pearl Harbor, until 4.30 p. m., Nov. 10.

Building.—Hawaii.—Bids will be received until 11 a. m., Nov. 11, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for the construction of an administration building at the Naval Station, Pearl Harbor, Hawaii. Bids for the same work will be received until 4.30 p. m., Nov. 10, by the Commandant of the Naval Station, Pearl Harbor.

***Canals and Pipe Lines.**—New Orleans, La.—Bids for constructing lined and covered canals and pipe lines for the Napoleon Ave. sewerage system were received on Sept. 11 by the Sewerage and Water Board of New Orleans, as follows: (A) Standard Concrete Construction Co., Chicago, Ill.; (B) A. L. PATTERSON, New Orleans, (awarded contract); (C) Dameron White Smith Co., New Orleans; (D) Inland Waterways Dredging & Equipment Co., New York; (E) Jefferson Construction Co., New Orleans; (F) Bancroft & Ross, New Orleans. The item bids were:

(Bengal, India) for two vertical, compound or triple expansion steam engines direct coupled to centrifugal pumps, together with all accessories complete. The pumps are to be capable of lifting 8,000 gallons per min. through a total head of 34½ ft., exclusive of friction through a maximum length of 300 ft. of suction and 2,500 ft. of delivery pipes. Specifications, etc., may be obtained at the Municipal office, Howrah, or at the office of the Sanitary Engineer, Bengal, 1 and 2 Old Court House Corner, Calcutta on deposit of 50/, which will be refunded on receipt of a bonafide bid.

NAPOLEON AVE. SEWER SYSTEM, CONTRACT 36-D, NEW ORLEANS, LA.

	A.	B.	C.	D.	E.	F.
295,000 cu. yds. excavation, including back-filling, grading, etc.	$0.87	$0.89	$1.10	$1.00	$1.11	$1.25
1,000,000 cu. yds. overhaul, per cu. yd. per 500 ft. in excess of 500 ft.	.05	.06	.05	.045	.06	.03
3,000 cu. yds. brickwork	10.00	9.25	11.00	13.30	12.00	8.00
16,900 cu. yds. concrete, 1:2:4	8.42	6.24	9.90	8.60	9.00	9.00
35,700 cu. yds. concrete, 1:3:6	5.90	5.24	9.50	8.00	8.50	8.50
44,500 sq. yds. surfacing	.585	.335	.40	.45	.50	.38
3,500,000 lbs. steel rods, placed in concrete	.027	.0225	.03	.024	.026	.025
990,000 lbs. cast iron	.035	.015	.03	.021	.0225	.017
338,000 lin. ft. yellow pine piling, driven	.25	.33	.23	.15	.20	.15
30,000 ft. B.M. yellow pine lumber, placed in bridges, etc.	37.50	35.00	33.00	50.00	45.00	35.00
1,700,000 ft. B. M. pecky cypress planking, placed on subgrade	21.25	27.00	20.00	21.00	18.00	20.00
950 lin. ft. vitrified clay pipe, 36-in.	5.00	3.80	4.50	4.85	4.90	4.50
1,050 lin. ft. vitrified clay pipe, 30-in.	4.00	2.55	3.30	3.30	3.70	3.00
1,400 lin. ft. vitrified clay pipe, 27-in.	3.00	2.05	2.60	2.50	2.80	2.30
4,500 lin. ft. vitrified clay pipe, 24-in.	2.40	1.45	1.60	1.60	1.80	1.40
1,200 lin. ft. vitrified clay pipe, 21-in.	2.10	1.00	1.30	1.25	1.30	1.25
2,100 lin. ft. vitrified clay pipe, 18-in.	1.45	.94	.90	.80	1.05	.80
1,000 lin. ft. vitrified clay pipe, 15-in.	1.00	.68	.75	.63	.85	.60
1,000 lin. ft. vitrified clay pipe, 12-in.	.80	.45	.50	.43	.65	.50
50,000 lin. ft. vitrified clay pipe, 10-in.	.65	.27	.35	.35	.45	.27
100 lin. ft. vitrified clay pipe, 8-in.	.40	.205	.25	.27	.40	.25
11,000 lin. ft. vitrified clay pipe, 6-in.	.25	.145	.20	.17	.20	.14
500 cu. yds. sand and cinders in equal proportions	2.50	2.67	1.75	2.00	1.50	2.50
400 lin. ft. stone curbing, reset and relined	.42	.14	.25	.30	.25	.15
100 sq. ft. stone curbing, removed	.06	.14	.10	.18	.20	1.00
190,000 ft. B.M. cypress curbing, furnished and placed	45.00	30.00	34.00	32.00	40.00	25.00
100 sq. yds. vit. brick pavement, taken up and relaid	2.50	2.05	1.20	3.00	2.00	1.50
1,400 sq. yds. Belgian block pav't, taken up and relaid	2.00	2.27	1.20	1.00	1.00	.75
100 sq. yds. flagging pavement, taken up and relaid	2.00	.54	1.20	.60	1.00	.25
2,700 sq. yds. asphalt pavement, taken up and relaid	4.00	3.40	4.00	3.00	1.75	3.00
1,400 sq. yds. Schillinger pav't, taken up and relaid	1.80	1.20	1.00	1.25	1.50	1.10
2,000 sq. yds. brick pav't sidewalks, taken up & relaid	.85	.40	.60	.75	.80	.30
33,000 sq. yds. gravel pavement, taken up and relaid	.57	.20	.65	.85	.50	.35
100 sq. yds. square block pav't, taken up and relaid	.70	.60	.88	1.25	1.00	.50
100 sq. yds. cobble stone pav't, taken up and relaid	.40	.40	.88	1.25	1.00	.40
1,200 cu. yds. hard filling, furnished in place	3.08	2.65	2.25	3.15	1.50	1.50
	$1,083,975	$977,005	$1,269,286	$1,118,372	$1,201,735	$1,152,645

Reinforcing Grids, Etc. — Panama. — Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until Oct 6, for reinforcing grids and vault lamps. Blanks and general information concerning this circular, No. 647-A, may be obtained at Washington, or at the offices of the Assistant Purchasing Agents, 24 State St., New York; 615 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.

Hydroelectric Station. — Panama. — Bids for plant and materials for hydro electric station at Gatun, including water turbines, governors, head gates, penstocks, compressed-air regulators, electricg enerators, exciters, exciter sets, lubricating system, traveling cranes, etc., will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., Oct. 9,. Blanks and general information relating to this circular, No. 648, may be obtained at Washington or the offices of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.; also from the U. S. Engineer Offices in Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass., Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.

CONTRACT PRICES.

*(*Denotes that this work is advertised in Engineering News.)*

***Channel.**—Chicago, Ill.—Bids were received Aug. 10 by I. J. Bryan, Clk. of Sanitary District of Chicago, for excavating Calumet Sag Channel, Sec. No. 4, from: (A) Forschner & Sexton Co., Mount Vernon, N. Y.; (B) John Morsch, Chicago, Ill.; (C) Shnable & Quinn, Chicago, Ill.; (D) National Contracting Co., Chicago, Ill.; (E) John W. Page, Chicago, Ill. The item bids were as follows:

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ——, ——. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

Sewage and Water-Works.—Uruguay. —Plans prepared for sewage and water-works for the town of Trinidad have been approved.

Insulations.—Australia.—Bids will be received until Oct. 2 by the Deputy Postmaster-General, Hobart, for supplying 10,000 porcelain insulators.

Electric Lighting.—Roumania.—Bids for the lighting of the town of Tulcea by electricity will be received at the Marie de Tulcea, Tulcea, until Nov. 19.

Bridge. — Peru. — The authorities of the Department of Lima have been authorized to raise a loan for the construction of a bridge over the Patilica River.

Floating Crane.—Brazil.—Bids will be received until Oct. 10 by the Inspectoria de Engenharia Naval Ministerio da Marhina, Rio de Janeiro, for supplying a floating crane.

River Improvement. — Uruguay. — Plans, it is reported, will be prepared for the improvement of the Negro River. Bids will be asked by the executive authorities of Uruguay.

Aqueduct and Sewers.—Colombia.— The Municipal Council of the District of Zipaquira has been authorized to raise a loan for the construction of an aqueduct and the installation of sewers.

Light and Power Installation.—Austria-Hungary. — The municipality of Innsbruck is arranging to acquire the Achensee with a view to using the water power for an electric light and power installation.

Central Heating Apparatus.—Turkey. —The Ministry of Finance, Constantinople, will probably award a contract soon for the installation of a central heating apparatus at the office of the Ministry.

***Pumping Machinery.**—India.—Bids will be received until 4 p. m., Dec. 1, by the Commissioners of the Municipality of Howrah, addressed to C. F. Payne, Chn., Howrah Municipality

DREDGING CALUMET- SAG CHANNEL.

	A	B	C	D	E
780,000 cu. yds. glacial drift	$0.25	$0.24	$0.304	$0.32	$0.34
121,000 cu. yds. solid rock	.77	.84	.70	.70	.95
37,000 sq. yds. riprap slope	.50	1.25	.80	1.00	1.25
Totals	$306,670	$335,090	$351,420	$370,300	$426,400

EXAMINATIONS.

Chemist.—Washington, D. C.—The U. S. Civil Service Commission announces an examination will be held on Oct. 4 to fill two vacancies in the position of Chemist, Division of Organic Chemistry, Bureau of Science, Manila, P. I., at salaries of $2,000 a year. The attention of persons well trained and experienced in Organic Chemistry is especially invited to these vacancies since, if persons of the desired qualifications are secured, the prospects of promotion for both will be good, and the more capable one will probably succeed to the position of Chief of the Division of Organic Chemistry at $3,000 a year within a year or two. Applicants must have reached their 20th but not their 40th birthday. Examination Form B. I. A. (two).

For other Proposal Advertisements see pages

53, 54, 56

of Advertisements and Construction News, page 142

PAVEMENT.

Wheaton, Ill.

The Board of Local Improvements of the City of Wheaton, Ill., is advertising for bids on North District Paving for 23,104 sq. yds. of Bituminous Macadam Pavement with combination concrete curb and gutter. Bids are to be accompanied by a certified check for at least 10% of the amount of the bid, made payable to Herbert A. Schryver, and returnable to Louis Elsworth, City Clerk, on or before Thursday, Sept. 28th at 8.00 P. M. Work is estimated by the City Engineer to cost $40,831.70.

Plans and specifications are on file in the office of the City Clerk or they can be seen at the office of

ARTHUR L. WEBSTER,
City Engineer.

STORM SEWER.

Dallas, Texas, Sept. 16th, 1911.

Sealed bids will be received at the office of the undersigned until 3 o'clock P. M., October 6th, 1911, for furnishing the necessary tools, labor, materials, pipe and specials to lay a series of Storm Sewer on Pennsylvania Avenue, Warren Avenue or Bell Avenue, and Colonial Avenue from Forest Avenue to Whittaker Street: According to plans and specifications on file in said office. [illegible] storm sewer will be from 15 inch V[illegible]ed pipe to 80 inch plain concrete pip[illegible] [illegible]ecifications may be had on applica[illegible] to City Engineer. That with each [illegible] there shall be deposited a certifi[illegible] [illegible]eck in the sum of $500.00 made pa[illegible] to the Mayor of the City of Dallas. [illegible] check will be retained until the c[illegible]ct has been awarded. That should [illegible] success-ful bidder fail or refuse to si[illegible] the contract and perform the work [illegible]er the award is made, said certified [illegible]k will be retained by and become [illegible]operty of the City of Dallas. Th[illegible]cks of the successful bidders will [illegible]turned upon the awarding of the sa[illegible]ntract. The City reserves the right [illegible]ct any or all bids. Envelopes must [illegible] marked "Bids on South Dallas Stor[illegible]wer."

J. B. WINS[illegible]
City [illegible]tary.

SEWERS.

Rahw[illegible] N. J.

Sealed proposals will be [illegible]ved by the Common Council of the C[illegible] of Rahway at the meeting to be he[illegible] Tuesday, September 26, 1911, at 8 o'c[illegible] p. m. for the construction of sewer[illegible] Harrison and Whittier Streets, Cott[illegible] Place and Newton Street and in Sco[illegible] Avenue, Bond and Monroe Streets.

The approximate amount of work to be done and material to be furnished is as follows:

3,534 feet 8 inch vitrified pipe.
944 feet 10 inch vitrified pipe.
388 feet 12 inch vitrified pipe

including a sufficient number of 6 inch y connections as shown on plans [illegible]. Manholes.

Certified check for $500 payable to Mayor and Common Council of the City of Rahway to accompany each bid.

Plans and specifications, contract and bond may be examined at the office of the City Engineer.

The Common Council reserves the right to reject any or all bids.

FRANKLIN MARSH,
City Engineer.

Rahway, N. J.,
Dated Sept. 14, 1911.

Situations Open
(Or Vacant)

WANTED—A Railroad Builder. We have a position open for a practical electric or steam railroad construction man of executive ability. Write, stating age, experience, salary desired and references. The position requires a man of experience. Address "H. C. 12," Engineering News, New York. 12-1t

WANTED—Hydraulic engineer; must be thoroughly experienced, competent to survey and lay out the hydraulic portion of hydro-electric plants. Give age and technical training and practical experience. Address R. S. KELSCH, Power Building, Montreal, Canada. 12-1t

Miscellaneous Wants

FULLY qualified English engineer (A. M. I. C. E.), situate in London, already acting as representative for a few good firms,

Is prepared to undertake English Agency

for one or two good specialties. Negotiations for sale or LICENSE OF BRITISH PATENTS for successful inventions also undertaken. Address "C. A. 3," Engineering News, New York. 12-3t

For Sale

FOR SALE.

Large Steam Boiler and Steam Pump

capable of delivering 1,500,000 gallons of water per day. Price low for immediate sale.

BOARD OF PUBLIC WORKS.
Pittsfield Mass.
Louis D. Cummings, Clerk. 12-1t

Reinhardt's
TECHNIC OF MECHANICAL DRAFTING
Shows *how* to do it right Price, $1.00